

LOG BOOK
OF THE
U. S. Steamer Essex
Third Rate,
of Six Guns,

Essex
Oct. 1st. 1877
Ending
Mar. 31st 1878
No. 63

COMMANDED BY
Commander Winfield Scott Schley, U. S. Navy,
Attached to Squadron,
Commencing October 1st, 1877,
at Sea, Lat. 24. 29 N. Long. 19.10 W.,
and ending March 31st, 1878,
at Montevideo, Uruguay S.A.

BUREAU OF NAVIGATION,
NAVY DEPARTMENT,
1875.



MINNESOTA HISTORICAL
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Transcribed by Christopher Olson and Ann Merriman
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LIST OF OFFICERS

Attached to and on board of the U. S. Str. Essex, 3^d Rate, commanded by
 Commander Winfield Scott Schley , U. S. N., at the time of leaving the anchorage,
 at the day of

NAME	RANK
W. S. Schley	Commander
Asa Walker	Lieutenant
Jas. K. Cogswell	"
Clinton K. Curtis	"
Samuel C. Lemly	Ensign
Charles B. T. Moore	"
John Schouler	Lieut. Comdr.
P. A. Rearick	Chief Engineer
H. T. Stancliff	Paymaster
A M. Moore	Surgeon
George B. Ransom	Asst Engineer
C. L. Dunnett	"
W. H. Allen	Midshipman
T. D. Griffin	"
R. Henderson	"
W. G. Hannum	"
Francis A. Dran	Boatswain
W. W. Richardson	Carpenter
J. Petty	Pay Clerk

LIST OF OFFICERS

Who have died, been detached, or transferred, on board the U. S. Steamer Essex, 3^d Rate
commanded by Commander Winfield S. Schley, U. S. N., during a cruise on the
Station from to

NAME.	RANK.	TIME OF OCCURRENCE AND PARTICULARS.
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Examined and found to be correct

Navigator.

ARMAMENT

of the U. S. Str Essex, 3^d Rate

No. of Guns.	Caliber.	Description.	Weight.
1	9 in.	Dahlgren Pattern	9195 lbs
1	9 in.	" "	9155 "
1	9 in.	" "	9165 "
1	9 in.	" "	9205 "
1	11 in.	" "	16900 "
1	Rifle 60 Pdr	" "	5450 "

BOATS.

One Launch
 One Cutter
 One Gig
 One Whale Boat
 One Dingy

SMALL ARMS.

65 Remington Rifles
 50 " Pistols
 15 Colt Revolvers
 1 Gatling Gun.

Examined and found to be correct

Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, At Sea.

Hour.	Knots.	Fathoms.	WINDS.			BAROMETER.		TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.	
			Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. at'd.	Air Dry Bulb.	Air Wet Bulb.						Water at surface.
A.M																
1	5	6	SW by W	NE	3		30.10	77	78	74	77	bc	Cum	9	S	All plain sail
2	5	4	"	"	3		30.08	77	77	74	77	"	"	9	"	except F.T.M.S.S.
3	5	0	"	"	3		30.07	77	77	74	77	"	"	3	"	spanker and gaff topsail.
4	5	2	"	"	3		30.07	77	77	74	77	"	"	3	"	"
5	5	4	"	"	3		30.08	77	77	74	77	"	"	5	"	"
6	5	4	"	"	3		30.10	77	78	75	77	"	"	7	"	"
7	5	4	"	"	3		30.10	77	78	75	77	"	"	7	"	"
8	5	4	"	"	3		30.11	77	79	76	77	"	"	5	"	"
9	5	0	"	"	3		30.12	78	81	77	77	"	"	8	"	"
10	4	6	"	NE by E	2		30.13	79	81	79	77	"	"	4	"	"
11	4	6	"	"	2		30.12	79	82	79	77	"	"	3	"	"
Noon	5	2	"	"	3		30.10	79	83	80	77	"	"	4	"	"

Distance run by Log since preceding Noon 125 knots 0 fathoms.

Latitude by D. R. at Noon 24 ° 32 ' 00 " N.

Longitude by D. R. at Noon 19 ° 00 ' 00 " W.

Latitude by Observations at Noon ⊕ 24 ° 29 ' 00 " N.

Longitude by Chronometer from Forenoon Observations ⊕ 19 ° 10 ' 00 " W.

Current during the time knots 3 fms. per hour, setting to the W. 24° S.

Variation of the Compass by Amplitude ⊕ observed at Sunrise ° " "

Variation of the Compass by Azimuth ⊕ observed at 7.30 A.M. 18 ° 30 " 00 " W.

Water expended during the preceding 24 hours 230 gallons.

Water during the preceding 24 hours "

Water remaining on hand fit for me at Noon 2080 "

Coal consumed during the preceding 24 hours tons 1250 lbs.

Coal remaining on hand at Noon 69 " 845 "

P.M.

1	4	4	SW by W	NE by E	3		30.11	79	81	78	78	Bc	Cum	6	S	Same as above.
2	4	0	"	"	2		30.11	79	80	78	78	"	"	8	"	"
3	4	0	"	"	3		30.10	79	82	79	78	"	"	9	"	"
4	4	4	"	"	3		30.10	79	82	80	78	"	"	9	"	"
5	5	2	"	N	3		30.04	79	81	78	78	"	"	6	"	"
6	5	2	"	"	3		30.04	78	80	78	78	"	"	6	"	"
7	5	4	"	"	3		30.06	78	79	77	78	"	"	7	"	"
8	6	0	"	"	3.4		30.08	79	79	77	78	"	"	7	"	"
9	6	4	"	N by E	4		30.08	79	79	77	78	"	"	6	"	"
10	6	4	"	"	3-4		30.08	79	79	77	78	"	"	8	"	"
11	5	4	"	"	3		30.07	78	79	76	78	"	"	8	"	"
Mid.	4	6	"	"	3		30.05	78	79	76	79	"	"	8	"	"

Longitude by Chronometer from Afternoon Observations ⊕ ° ' "

Longitude by Chronometer Observations * ° ' "

Variation of the Compass by Amplitude observed at Sunset ° ' "

Variation of the Compass by at ° ' "

under the command of Commander Winfield Scott Schley, U. S. Navy.
Monday October 1st, 1877

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear and pleasant first part, cloudy latter part of watch. Moderate breeze from N. E. At 12 set lee clew of mainsail. Moon rose at 12. Bright moonlight. Sea smooth.

(Signed) James K. Cogswell
Lieut.

From 4 to 8 A.M. Clear and pleasant. Moderate breeze from N. E. Barometer rising. Ship under all plain sail.

(Signed) Clinton K. Curtis
Lieut.

From 8 to Merid. Clear. Warm. Light N.E. breeze. Cumulus clouds. At 9.15 exercised at General Quarters. Times as follows. Engineers Div. 1 m[inute] 15 s[econds]. Marine Guard 1 m 25 s. Navigators Div. 2 m. Powder Div. 3 m. Surgeons Div. 4 m 15 s. 2nd Div. 5 m 20 s. 1st Div. 6 m 30 s. Secure. Engineers Div. 1 m. Navigators Div. 2 m 30 s. Powder Div. 4 m 30 s. Surgeons Div. 4 m 40 s. 2nd Div. 7 m 15 s. 1st Div. 8 m 15 s. By order of Comdg. Officer, James Hackett (2.G.B.) Nicholas Lynch (2.C.B.) and Herman Meyer (1.C.B.) were released from confinement, their time having expired. Inspected bags of the crew. At 9 hauled up lee clew of mainsail. By order of Commanding Officer, Michael Guny (2.C.F.) was placed in double irons for being insolent to an officer.

(Signed) Samuel C. Lemly
Ensign.

From Merid. to 4 P.M. Clear. Warm. Light from N.E. by E. Broke out and overhauled both bower chains.

(Signed) Charles B. T. Moore
Ensign.

From 4 to 6 P.M. Clear and pleasant. Light breeze from N. At 5.45 set lee clew of mainsail. At 5.50 mustered at quarters. Ship rolling moderately.

(Signed) James K. Cogswell
Lieut.

From 6 to 8 P.M. Clear and pleasant. Moderate breeze from N. Barometer rising.

(Signed) Clinton K. Curtis
Lieut.

From 8 to Midnight. Clear. Cool. Pleasant. Light N[orther]ly breeze. Cumulus clouds. Barometer falling slowly.

(Signed) Samuel C. Lemly
Ensign.

(Signed) Asa Walker
Lieut.
Navigator.

Examined and found to be correct

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, At Sea.

Hour.	Knots Fathoms.		Courses steered.	WINDS.		Leeway.	BAROMETER.		TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prog. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.		
				Direction.	Force.		Height in inches.	Ther. alt'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.							
A.M																		
1	4	4	SW by W	NE by N	3		30.03	78	79	76	78	bc	Cum Nimb	2	S	Royals, F. G. sails, Topsails,		
2	4	4	"	NE	3		30.02	78	78	75	78	"	"	2	"	weather clew of M. sail.		
3	5	0	"	"	3		30.01	78	77	74	78	"	"	1	"	Jib and Flying jib.		
4	5	4	"	ENE	3		30.00	78	77	74	78	"	"	7	"	"		
5	6	0	"	"	3		30.00	78	78	74	78	"	"	8	"	"		
6	5	6	"	"	3		30.03	78	78	74	78	"	"	3	"	"		
7	5	0	"	"	3		30.02	78	78	75	78	"	"	2	"	"		
8	4	4	"	NNE	2		30.02	78	79	76	78	"	"	1	"	"		
9	3	4	"	"	2		30.03	78	80	77	78	"	Cum	3	"	"		
10	4	4	"	NE by E	2-3		30.03	78	81	77	80	"	"	3	"	"		
11	5	4	"	ENE	3		30.03	79	82	77	80	"	"	3	"	"		
Noon	4	0	"	"	3		30.01	79	82	78	80	"	"	2	"	"		
Distance run by Log since preceding Noon												120 knots		4 fathoms.				
Latitude by D. R. at Noon												22	°	49	'	00	"	N.
Longitude by D. R. at Noon												20	°	23	'	00	"	W.
Latitude by Observations at Noon ⊕												22	°	44	'	00	"	N.
Longitude by Chronometer from Forenoon Observations ⊕												20	°	41	'	00	"	W.
Current during the time					knots	6	fms. per hour, setting to the					W. 16° S.		°	"	"		
Variation of the Compass by Amplitude ⊕ observed at Sunrise												°		"	"			
Variation of the Compass by Azimuth ⊕ observed at 7.30 A.M.												18	°	20	"	00	"	W.
Water expended during the preceding 24 hours												230 gallons.						
Water					during the preceding 24 hours							"						
Water remaining on hand fit for me at Noon												1700		"				
Coal consumed during the preceding 24 hours												tons		250	lbs.			
Coal remaining on hand at Noon												69	"	595	"			
P.M																		
1	3	2	SW by W	ENE	2		30.00	78	81	77	80	bcp	Cum Nimb	1	S	All plain sail except		
2	5	1	"	NE by N	3		29.99	77	80	77	80	"	"	1	"	Fore topmast stay sail		
3	5	2	"	N by W	3		29.98	77	79	76	80	bc	"	2	"	"		
4	4	0	"	"	2		29.97	77	79	77	80	"	"	3	"	"		
5	4	6	"	NE by N	2		29.97	77	80	78	79	"	"	5	"	Same except spanker		
6	4	4	"	E by N	3		29.97	77	78	76	79	bcd	"	2	"	and gaff topsail.		
7	5	0	"	E	3		29.97	77	77	75	80	bc	"	3	"	"		
8	5	4	"	"	3		29.98	77	76	74	80	"	"	3	"	"		
9	5	4	"	"	3		30.00	77	75	74	80	oqd	"	0	"	"		
10	3	0	"	"	1-2		30.00	78	77	76	80	bcq	"	4	"	"		
11	4	4	"	"	2-3		29.98	78	78	76	80	"	"	2	"	"		
Mid.	5	0	"	"	3		29.98	78	78	76	80	"	"	2	"	"		
Longitude by Chronometer from Afternoon Observations ⊕												°	'	"				
Longitude by Chronometer Observations												*		°	'	"		
Variation of the Compass by Amplitude												observed at Sunset		°	'	"		
Variation of the Compass by												at		°	'	"		

under the command of Commander Winfield Scott Schley, U. S. Navy.
Tuesday October 2nd, 1877.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Cloudy, cool. Gentle breeze from N. and E. Obscured moonlight.
Barometer falling slowly.

(Signed) Charles B. T. Moore
Ensign.

From 4 to 8 A.M. Cloudy and pleasant. Light breeze from N. and E. Barometer steady.

(Signed) James K. Cogswell
Lieut.

From 8 to Merid. Cloudy, pleasant. Light breeze from N. and E. At 9.15 inspected at quarters.
Exercised at company drill. Ship under all plain sail. Barometer falling.

(Signed) Clinton K. Curtis
Lieut.

From Merid. to 4 P.M. Cloudy. Warm. Passing showers. Cum. Nimb. clouds. At 1 took in
mainsail, gaff topsail and spanker. At 1.20 wind shifted to N.E. by N. braced up by port brace;
set lee clew of mainsail. At 2.15 set spanker and gaff topsails. At 2.35 set weather clew of
mainsail. Served out clothing to crew.

(Signed) Samuel C. Lemly
Ensign.

From 4 to 6 P.M. Cloudy, warm. Light breeze from N. and E. Drizzling rain last hour. At 4.15
took in spanker and gaff topsail.

(Signed) Charles B. T. Moore
Ensign.

From 6 to 8 P.M. Cloudy and pleasant. Light breeze from E. Drizzling rain first hour. Barometer
rising slowly. Water phosphorescent.

(Signed) James K. Cogswell
Lieut.

From 8 to Midnight. Cloudy and overcast. Light wind with squalls and drizzling rain, from E.
Barometer falling.

(Signed) Clinton K. Curtis
Lieut.

(Signed) Asa Walker
Lieut.
Navigator.

Examined and found to be correct

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, At Sea.

Hour.	Knots Fathoms.		Courses steered.	WINDS.		Barometer.	TEMPERATURE.				State of the Weather by symbols.	Forms of Clouds, by symbols.	Prog. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
				Direction.	Force.		Height in inches.	Ther. at't'd.	Air Dry Bulb.	Air Wet Bulb.					
A.M.															
1	4	6	SW by W	ENE	3	30.06	78	79	75	79	bc	Cum Nimb	6	S	All plain sail
2	4	6	"	"	3	30.04	78	79	76	79	"	"	4	"	except fore topmast
3	4	6	"	NE by E	3	30.03	77	79	76	79	"	"	3	"	stay sail.
4	4	2	"	NE	3	30.03	77	79	76	79	"	"	2	"	"
5	6	0	"	ENE	4	29.96	77	77	75	79	"	"	4	"	"
6	6	6	"	"	4	29.96	77	77	75	79	o	"	2	"	"
7	6	0	"	"	4	29.95	76	76	75	79	bc	"	2	"	"
8	5	4	"	"	3	29.96	76	77	76	80	"	"	1	"	"
9	5	2	"	E by N	3	29.96	77	78	76	80	"	"	2	"	"
10	5	4	"	E	3	29.97	78	80	77	80	"	"	6	"	"
11	5	4	"	"	3	29.97	78	82	78	80	"	Cir Cum	8	"	"
Noon	5	6	"	"	3	29.97	78	82	79	80	"	"	7	"	"

Distance run by Log since preceding Noon

120 knots

0 fathoms.

Latitude by D. R. at Noon

21 ° 04 ' 18 " N.

Longitude by D. R. at Noon

21 ° 53 ' 00 " W.

Latitude by Observations at Noon ⊕

20 ° 58 ' 47 " N.

Longitude by Chronometer from Forenoon Observations ⊕

21 ° 59 ' 00 " W.

Current during the time knots 2 fms. per hour, setting to the S.W.

Variation of the Compass by Amplitude ⊕ observed at Sunrise

° " "

Variation of the Compass by Azimuth ⊕ observed at 8.30 A.M.

18 ° 10 " 00 " W.

Water expended during the preceding 24 hours

230 gallons.

Water during the preceding 24 hours

"

Water remaining on hand fit for me at Noon

1470 "

Coal consumed during the preceding 24 hours

tons 250 lbs.

Coal remaining on hand at Noon

69 " 345 "

P.M.

1	5	0	SW by W	E	3	29.93	78	81	79	80	bc	Cum	7	S	Plain sail.
2	5	0	"	"	3	29.92	78	80	77	80	"	"	8	"	"
3	5	0	"	"	3	29.90	78	80	77	80	"	"	8	"	"
4	5	0	"	"	3	29.90	78	80	77	80	"	"	7	"	"
5	4	4	"	E by N	3	29.90	77	80	76	81	"	"	5	"	"
6	3	2	"	"	2	29.90	77	80	79	81	"	"	5	"	"
7	3	2	"	"	2	29.92	78	79	75	80	"	Cum nimb	8	"	"
8	4	0	"	ENE	2	29.93	78	78	75	80	"	"	8	"	"
9	4	4	"	NE	3	29.95	79	77	75	80	"	"	8	"	"
10	5	0	"	"	3	29.96	79	78	75	78	"	"	9	"	"
11	5	0	"	"	3	29.94	79	78	75	78	"	"	3	"	"
Mid.	5	2	"	"	3	29.94	79	78	74	78	"	"	3	"	"

Longitude by Chronometer from Afternoon Observations ⊕

° ' "

Longitude by Chronometer Observations

*

° ' "

Variation of the Compass by Amplitude

observed at Sunset

° ' "

Variation of the Compass by

at

° ' "

under the command of Commander Winfield Scott Schley, U. S. Navy.
Wednesday October 3rd, 1877.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Cloudy. Cool. Pleasant. Light breeze from N. and E. Cum. Nimb. clouds. At 2.15 moon rose. At 2.45 took in mainsail and squared away. Passing showers last part of watch.

(Signed) Samuel C. Lemly
Ensign.

From 4 to 8 A.M. Cloudy, cool. Moderate breeze fro E.N.E.

(Signed) Charles B. T. Moore
Ensign.

From 8 to Merid. Clear and pleasant. Moderate breeze from E. At 9.15 mustered at quarters. Exercised 1st and 2nd Divisions at great guns. At 10 set lee clew of mainsail, spanker and fore topmast staysail. By order of Comdg. Officer, Michael Guny (2.C.G.) was released from confinement and returned to duty.

(Signed) James K. Cogswell
Lieut.

From Merid. to 4 P.M. Clear and pleasant. Light breeze from E. Barometer falling. Sent aloft fore and main trysail gaffs and bent main trysail.

(Signed) Clinton K. Curtis
Lieut.

From 4 to 6 P.M. Cloudy, warm. Light E[aster]ly breeze. Cumulus clouds. At 5.10 sighted a bark off starboard beam standing to S. and W. At 5.55 mustered at quarters.

(Signed) Samuel C. Lemly
Ensign.

From 6 to 8 P.M. Clear and pleasant. Light breeze from N. and E. Barometer rising.

(Signed) Charles B. T. Moore
Ensign.

From 8 to Midnight. Cloudy and pleasant. Light breeze from N. and E. A sail crossed our bow bound to S. and E. Barometer steady.

(Signed) James K. Cogswell
Lieut.

(Signed) Asa Walker
Lieut.
Navigator.

Examined and found to be correct

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, At Sea.

Hour.	Knots	Fathoms.	WINDS.			BAROMETER.			TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prog. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
			Courses steered.	Direction.	Force.	Legacy.	Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A.M.																
1	4	4	SW by W	ENE	2-3		29.93	77	79	76	80	bc	Cum Nimb	3	S	
2	5	0	"	"	2-3		29.92	78	78	76	80	"	"	5	"	
3	4	0	"	"	2		29.91	78	78	75	80	"	"	7	"	
4	4	4	"	"	2		29.90	78	79	75	80	"	"	7	"	
5	4	2	"	E	2		29.92	78	79	75	80	"	"	2	"	All plain sail
6	3	6	"	"	2		29.93	78	79	74	80	"	"	4	"	"
7	3	4	"	ESE	2		29.94	78	79	75	81	"	"	4	"	"
8	3	6	"	"	2		29.96	78	81	76	79	"	"	4	"	"
9	4	0	"	"	2		29.98	79	82	78	79	"	"	4	"	All plain sail
10	4	4	"	"	3		29.99	79	82	79	80	"	Cum	6	"	Except mainsail.
11	4	0	"	"	2		29.99	79	82	79	80	"	"	7	"	"
Noon	3	2	"	"	2		29.97	79	83	79	80	"	"	7	"	"

Distance run by Log since preceding Noon 103 knots 6 fathoms.

Latitude by D. R. at Noon 19 ° 32 ' 40 " N.

Longitude by D. R. at Noon 23 ° 00 ' 00 " W.

Latitude by Observations at Noon ⊕ 19 ° 37 ' 40 " N.

Longitude by Chronometer from Forenoon Observations ⊕ 23 ° 05 ' 00 " W.

Current during the time knots 2 fms. per hour, setting to the N.W.

Variation of the Compass by Amplitude ⊕ observed at Sunrise ° " "

Variation of the Compass by Azimuth ⊕ observed at 7.30 A.M. 18 ° 30 " 00 " W.

Water expended during the preceding 24 hours 300 Gallons.

Water during the preceding 24 hours "

Water remaining on hand fit for me at Noon 1170 "

Coal consumed during the preceding 24 hours 7 tons 650 lbs.

Coal remaining on hand at Noon 61 " 1935 "

P.M.																
1	3	0	SW 3/4 W	ESE	2		29.94	78	81	78	80	bc	Cum	8	S	All plain sail
2	4	4	"	"	2		29.94	79	82	78	80	"	"	9	"	except gaff topsail
3	8	6	"	"	2		29.93	79	82	78	80	"	"	9	"	and spanker.
4	9	0	"	"	2		29.92	79	82	78	80	"	"	9	"	"
5	8	0	"	SE by E	2		29.92	80	81	78	80	"	"	8	"	Steaming 6 boilers
6	7	6	"	"	1-2		29.92	80	81	78	80	"	"	8	"	"
7	8	0	"	ESE	1		29.94	81	81	78	80	"	"	6	"	Head sail.
8	7	4	"	"	1		29.97	80	81	80	80	"	"	7	"	"
9	8	4	"	"	0-1		29.97	80	81	78	80	"	"	9	"	"
10	9	0	"	SE	1		29.99	80	81	78	80	"	"	8	"	"
11	9	0	"	"	1		29.99	80	81	78	80	"	"	8	"	"
Mid.	9	4	"	ESE	1		29.96	80	81	78	80	"	"	9	"	"

Longitude by Chronometer from Afternoon Observations ⊕ ° ' "

Longitude by Chronometer Observations * ° ' "

Variation of the Compass by Amplitude observed at Sunset ° ' "

Variation of the Compass by at ° ' "

under the command of Commander Winfield Scott Schley, U. S. Navy.
Thursday October 4th, 1877.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Partially cloudy. Pleasant. Light breeze from N. and E. Barometer falling slowly. Moon rose at 3.30.

(Signed) Clinton K. Curtis
Lieut.

From 4 to 8 A.M. Cloudy. Warm. Light E[aster]ly breeze. Cum. Nimb. clouds. Barometer rising. At 7.50 set spanker and gaff topsail.

(Signed) Samuel C. Lemly
Ensign.

From 8 to Merid. Clear. Warm. Light breeze from E.S.E. At 9.15 inspected at quarters. 1st Div. exercised at great guns, 2nd Div. at single sticks and Powder Div. at stations. At 11.15 took in and furled mainsail. Hoisted smoke stack. At 11.30 started fires in six boilers.

(Signed) Charles B. T. Moore
Ensign.

From Merid. to 4 P.M. Clear and warm. Light breeze from S. and E. At 1 instructed boat crews in their duties at serving and equipping boats. At 1.45 shortened and furled sail, and started with steam in six boilers. At 12 changed course to S.W. 3/4 W. Steam pressure 60 lbs. Revolutions 50.

(Signed) James K. Cogswell
Lieut.

From 4 to 6 P.M. Clear and pleasant. Light breeze from S.E. by E. Barometer steady. At 4.25 stopped engines on account of hot crank pin. At 4.35 started ahead. Slushed spars. Steam pressure 60 lbs. Revolutions 45. Temp. of bunkers 106°.

(Signed) Clinton K. Curtis
Lieut.

From 6 to 8 P.M. Clear. Pleasant. Light E.S.E. breeze. Cumulus clouds. At 6.15 took in spanker, gaff topsail and main trysail. Steaming 6 boilers. Steam pressure 55 lbs. Revolutions 43. Temp. of bunkers 106°.

(Signed) Samuel C. Lemly
Ensign.

From 8 to Midnight. Clear and pleasant. Light airs from S. and E. Steaming with six boilers. Steam 60 lbs. Revolutions 47.

(Signed) Charles B. T. Moore
Ensign.

(Signed) Asa Walker
Lieut.
Navigator.

Examined and found to be correct

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, At Sea.

Hour.	Knots	Fathoms.	WINDS.			BAROMETER.		TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
			Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.					
A.M.															
1	9	0	SW 3/4 W	Calm	0	29.96	80	82	78	82	bc	Cum	8	S	Fore and aft sail.
2	9	6	SW 3/4 W	"	0	29.96	80	82	78	82	"	"	7	"	Steaming six boilers.
3	10	0	"	"	0	29.95	80	82	78	82	"	"	6	"	"
4	10	2	"	WSW	1	29.94	80	82	78	82	"	"	3	"	"
5	10	2	"	"	1	29.95	80	80	79	81	"	"	3	"	"
6	9	6	"	"	1	29.96	80	80	79	81	"	"	3	"	"
7	8 1	4 4	sw 1/4 w	"	1	29.98	80	81	79	81	"	"	5	"	"
8	13	0	"	"	1	29.97	80	82	80	81	"	"	6	"	"
9				N	1	29.97	81	83	81	81	"	"	8	"	"
10	Standing in for Porta Grande under direction of Navigator.		NE	2		29.97	82	84	81		"	"	8	"	"
11			"	3		29.96	83	85	81		"	"	8	"	"
Noon				"	3	29.97	83	86	81		"	"	8	"	"

Distance run by Log since preceding Noon

knots fathoms.

Latitude by D. R. at Noon

0 1 "

Longitude by D. R. at Noon

0 1 "

Latitude by Observations at Noon ⊕

0 1 "

Longitude by Chronometer from Forenoon Observations ⊕

0 1 "

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊕ observed at Sunrise

0 " "

Variation of the Compass by Azimuth ⊕ observed at

0 " "

Water expended during the preceding 24 hours

230 gallons.

Water

during the preceding 24 hours

"

Water remaining on hand fit for me at Noon

840 "

Coal consumed during the preceding 24 hours

6 tons 50 lbs.

Coal remaining on hand at Noon

55 " 1885 "

P.M.

1	At Anchor	E by N	3	29.91	83	85	82	bc	Cum	9
2	"	ENE	3	29.90	82	85	81	"	"	8
3	"	"	3	29.89	82	85	81	"	"	8
4	"	"	3	29.88	82	84	81	"	"	9
5	"	E	3	29.88	81	83	80	"	"	4
6	"	"	2	29.90	81	82	79	"	"	9
7	"	"	2	29.91	80	82	78	"	"	9
8	"	"	2	29.93	80	81	76	b	None	10
9	"	"	2	29.94	80	82	78	bc	Cum	9
10	"	"	2	29.93	80	82	79	"	"	9
11	"	"	2	29.93	80	82	79	"	"	8
Mid.	"	"	2	29.93	80	82	79	"	"	7

Longitude by Chronometer from Afternoon Observations ⊕

0 1 "

Longitude by Chronometer Observations

*

0 1 "

Variation of the Compass by Amplitude

observed at Sunset

0 1 "

Variation of the Compass by

at

0 1 "

under the command of Commander Winfield Scott Schley, U. S. Navy.
Friday October 5th, 1877.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear and warm. Calm. Steaming with six boilers. Steam pressure 61 lbs. Revolutions 53.

(Signed) James K. Cogswell
Lieut.

From 4 to 8 A.M. Clear and pleasant. Light airs from S. and W. Barometer steady. At 6 sighted high land bearing S.W. 1/2 W. to S.S.W. Bent chains and got anchors off the bow. Several islands in sight at end of watch, bearing S. to W.N.W. Changed course to S.W. 1/4 W. at 6.50.

(Signed) Clinton K. Curtis
Lieut.

From 8 to Merid. Clear. Warm. Light N.E[aster]ly breeze. Cumulus clouds. Standing in for Porta Grande. Engaged in getting ship ready for port. At 10.42 came to in 8 fathoms water, veering to 45 fathoms port chains. Ships head E. by N. Bird Island bearing (pc) N. 1/4 W. Fort E. 1/4 S. At 11 Health Officer visited the ship and granted pratique. An officer from Portuguese gunboat "Lado" came on board and presented the compliments of his Commander. Draught forward 13 feet 10 in. Amidships 14 feet 11 in. Aft 16 feet. Allowing fires to die out in four boilers. Fires banked in two boilers. Steam pressure 40 lbs. Temp. of bunkers 108°.

(Signed) Samuel C. Lemly
Ensign.

From Merid. to 4 P.M. Clear, warm. Moderate breeze from E.N.E. American Consul visited the ship. Hauled fires in four boilers. Fires banked in two boilers. Steam pressure 25 lbs. Distilling. Temp. of bunkers 106°.

(Signed) Charles B. T. Moore
Ensign.

From 4 to 8 P.M. Clear and pleasant. Light breeze from E. Fires banked in two boilers. Average pressure 25 lbs. Distilling.

(Signed) James K. Cogswell
Lieut.

From 8 to Midnight. Clear. Pleasant. Damp. Light E[aster]ly breeze. Cumulus clouds. At 8.40 English Steamer "Cuzco" left the harbor. Fires banked in two boilers. Average pressure 25 lbs. Distilling.

(Signed) Samuel C. Lemly
Ensign.

(Signed) Asa Walker
Lieut.
Navigator.

Examined and found to be correct

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Porta Grande, Cape de Verd Islands

Hour.	Knots Fathoms.	WINDS.		BAROMETER.		TEMPERATURE.		State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
		Direction.	Force.	Legacy.	Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.			
A.M												
1		SSW	1		29.93	78	80	78	bc	Cum	9	
2		SE	1		29.90	78	81	78	b	None	10	
3		"	1		29.89	78	82	79	bc	Cum	9	
4		SSE	1		29.90	78	81	78	"	"	8	
5		Calm	0		29.90	78	81	78	"	"	9	
6		"	0		29.90	78	79	78	"	"	9	
7		"	0		29.91	79	80	78	"	"	5	
8		"	0		29.93	81	82	80	"	Cir Cum	5	
9		NE	1		29.93	81	83	81	"	"	5	
10		"	1-2		29.93	83	84	81	"	"	7	
11		"	2		29.92	83	85	81	"	"	7	
Noon		ENE	1-2		29.90	82	85	81	"	"	7	

Distance run by Log since preceding Noon	knots	fathoms.
Latitude by D. R. at Noon	0	"
Longitude by D. R. at Noon	0	"
Latitude by Observations at Noon ⊕	0	"
Longitude by Chronometer from Forenoon Observations ⊕	0	"
Current during the time	knots	fms. per hour, setting to the
Variation of the Compass by Amplitude ⊕ observed at Sunrise	0	"
Variation of the Compass by Azimuth ⊕ observed at	0	"
Water expended during the preceding 24 hours		350 gallons.
Water Condensed during the preceding 24 hours		100 "
Water remaining on hand fit for me at Noon		590 "
Coal consumed during the preceding 24 hours	1 tons	1010 lbs.
Coal remaining on hand at Noon	54 "	875 "

P.M.												
1		E	2		29.90	82	85	81	bc	Cir Cum	6	
2		ESE	2		29.88	83	85	82	"	"	6	
3		SE	2		29.87	84	85	82	"	"	6	
4		E	2		29.87	83	84	81	"	"	8	
5		"	2		29.88	83	83	81	"	Cum	8	
6		NE	2		29.90	82	82	80	"	"	9	
7		"	2		29.91	82	80	78	"	"	8	
8		"	1		29.93	81	82	80	"	"	9	
9		NE by E	1		29.93	81	82	80	"	"	8	
10		"	1-2		29.93	81	82	79	"	"	8	
11		"	2		29.93	81	82	79	"	"	8	
Mid.		"	2		29.93	81	82	79	"	"	8	

Longitude by Chronometer from Afternoon Observations ⊕	0	"
Longitude by Chronometer Observations *	0	"
Variation of the Compass by Amplitude observed at Sunset	0	"
Variation of the Compass by at	0	"

under the command of Commander Winfield Scott Schley, U. S. Navy.
Saturday October 6th, 1877.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear and pleasant. Light variable. Barometer falling. Fires banked in two boilers. Distilling.

(Signed) Charles B. T. Moore
Ensign.

From 4 to 8 A.M. Clear and warm. Calm. Commenced to coal ship at 8.

(Signed) James K. Cogswell
Lieut.

From 8 to Merid. Clear and warm. Light breeze from N. and E. Barometer falling slowly. Coaling ship. Received on board 60 tons. Comdg Officer paid official visit to Portuguese Corvette.

(Signed) Clinton K. Curtis
Lieut.

From Merid. to 4 P.M. Clear. Warm. Light breeze from S. and E. Cir. Cum. clouds. Coaling ship. Commanding Officer of Portuguese Gunboat "Sado" paid official visit to the ship. Fires banked in two boilers. Steam pressure 55 lbs. Distilling.

(Signed) Samuel C. Lemly
Ensign.

From 4 to 8 P.M. Clear and pleasant. Light N.E[aster]ly breeze. Fires banked in two boilers. Distilling.

(Signed) Charles B. T. Moore
Ensign.

From 8 to Midnight. Clear and pleasant. Light breeze from N. and E. Barometer steady.

(Signed) Clinton K. Curtis
Lieut.

(Signed) Asa Walker
Lieut.
Navigator.

Examined and found to be correct

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Porta Grande, Cape de Verd Islands

Hour.	Knots Fathoms.	WINDS.		BAROMETER.		TEMPERATURE.		State of the Weather by symbols.	Forms of Clouds, by symbols.	Prog. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
		Direction.	Force.	Height in inches.	Ther. at't'd.	Air Dry Bulb.	Air Wet Bulb.					
A.M.												
1		NE	1	29.91	80	82	80	bc	Cir Cum	8		
2		"	1	29.89	80	82	80	"	"	8		
3		"	2	29.89	80	82	79	"	"	6		
4		"	2	29.89	80	82	79	"	"	6		
5		"	2	29.90	80	81	80	"	"	4		
6		"	2	29.92	79	81	82	"	"	3		
7		"	2	29.93	80	81	82	"	"	2		
8		ENE	2	29.95	81	82	82	"	"	1		
9		"	2	29.95	82	83	82	"	"	2		
10		"	2	29.95	82	84	81	"	"	4		
11		NE	2	29.95	82	85	82	"	"	4		
Noon		"	2	29.94	82	85	82	"	"	5		

Distance run by Log since preceding Noon	knots	fathoms.
Latitude by D. R. at Noon	0	"
Longitude by D. R. at Noon	0	"
Latitude by Observations at Noon ⊕	0	"
Longitude by Chronometer from Forenoon Observations ⊕	0	"
Current during the time knots fms. per hour, setting to the		
Variation of the Compass by Amplitude ⊕ observed at Sunrise	0	"
Variation of the Compass by Azimuth ⊕ observed at	0	"
Water expended during the preceding 24 hours		230 gallons.
Water Condensed during the preceding 24 hours		400 "
Water remaining on hand fit for me at Noon		760 "
Coal consumed during the preceding 24 hours	1 tons	890 lbs.
Coal remaining on hand at Noon	52 "	2225 "

P.M.												
1		NE by N	2	29.93	82	85	82	bc	Cir Cum	6		
2		"	2	29.91	82	85	82	"	"	6		
3		"	2	29.89	82	86	82	"	"	6		
4		NNE	3	29.89	82	84	81	"	"	6		
5		E	2	29.90	83	85	82	"	"	5		
6		ENE	2	29.91	83	84	81	"	"	6		
7		NE	2	29.92	83	84	80	"	"	7		
8		"	3	29.94	82	83	80	"	"	8		
9		"	3	29.95	82	84	80	"	"	7		
10		"	2	29.96	83	83	80	"	"	5		
11		"	2	29.96	82	83	80	"	"	2		
Mid.		"	1	29.96	82	83	80	"	"	"		

Longitude by Chronometer from Afternoon Observations ⊕	0	"	"
Longitude by Chronometer Observations *	0	"	"
Variation of the Compass by Amplitude observed at Sunset	0	"	"
Variation of the Compass by at	0	"	"

under the command of Commander Winfield Scott Schley, U. S. Navy.
Sunday October 7th, 1877.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear. Pleasant. Damp. Light N.E. breeze. Cir. Cum. clouds. Fires banked in two boilers. Steam pressure 35 lbs. Distilling.

(Signed) Samuel C. Lemly
Ensign.

From 4 to 8 A.M. Cloudy. Pleasant. Light breeze from N. and E. Received for crew 158 lbs fresh beef. 140 lbs vegetables. Fires banked in two boilers.

(Signed) Charles B. T. Moore
Ensign.

From 8 to Merid. Cloudy and warm. Light breeze from N. E. At 9 and English steamer came in from the W. and anchored. At 9.50 Commanding Officer inspected at quarters. Afterwards Articles of War were read and crew mustered. Commanding Officer lead prayers. The Governor of the Island paid an official visit to the ship. Fires banked in two boilers. Average pressure 30 lbs. Distilling.

(Signed) James K. Cogswell
Lieut.

From Merid. to 4 P.M. Clear and pleasant. Light breeze from N.E. Barometer falling.

(Signed) Clinton K. Curtis
Lieut.

From 4 to 8 P.M. Light E[aster]ly breeze. Cir. Cum. clouds. At 4.30 Henry E. Foster (Ships Tailor) left the ship for the United States, having been condemned by medical survey. At 6.15 English Steamer "Magellan" left the harbor. Fires banked in two boilers. Average pressure 30 lbs. Distilling.

(Signed) Samuel C. Lemly
Ensign.

From 8 to Midnight. Cloudy and pleasant. Light N. E[aster]ly breeze. Banked fires in two boilers. Average pressure 25 lbs. Distilling.

(Signed) James K. Cogswell
Lieut.

(Signed) Asa Walker
Lieut.
Navigator.

Examined and found to be correct

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Porta Grande, Cape de Verd Islands

Hour.	Knots Fathoms.	Courses steered.	WINDS.		BAROMETER.		TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prog. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.	
			Direction.	Force.	Leeway.	Height in inches.	Ther. air'd.	Air Dry Bulb.	Air Wet Bulb.						Water at surface.
A.M.															
1			NE	2		29.94	82	83	81		bc	Cum Nimb	3		
2			"	2-4		29.92	82	83	81		bcq	"	1		
3			"	2-4		29.90	82	83	81		"	"	1		
4			"	3-5		29.90	82	83	82		orq	"	0		
5			"	3		29.91	81	83	82		bcl	"	3		
6			"	2		29.93	81	83	82		bc	"	4		
7			"	2		29.94	81	83	82		"	"	4		
8			ENE	2		29.95	81	84	82		"	"	3		
9			ESE	2		29.96	82	85	83		"	"	1		
10			"	1		29.96	83	86	83		"	"	2		
11			NE by E	1		29.94	84	86	84		"	"	1		
Noon			NW	1		29.94	83	85	83		"	"	1		

Distance run by Log since preceding Noon	knots	fathoms.
Latitude by D. R. at Noon	°	' "
Longitude by D. R. at Noon	°	' "
Latitude by Observations at Noon ⊕	°	' "
Longitude by Chronometer from Forenoon Observations ⊕	°	' "
Current during the time	knots	fms. per hour, setting to the
Variation of the Compass by Amplitude ⊕ observed at Sunrise	°	" "
Variation of the Compass by Azimuth ⊕ observed at	°	" "
Water expended during the preceding 24 hours		230 gallons.
Water Received		1700 "
Water remaining on hand fit for me at Noon		2920 "
Coal consumed during the preceding 24 hours	6 tons	490 lbs.
Coal remaining on hand at Noon	203	" 1735 "

P.M.															
1			NW	1		29.93	82	83	82		bcp	Cum Nimb	1	S	
2			"	1		29.93	83	85	83		bc	"	2	"	
3			"	1		29.93	83	85	83		bcp	"	1	"	
4		Standing out of Porta Grande	S	3		29.93	83	85	83		bc	"	4	"	
5	7	0	SSE 1/2 E	SE	3	29.95	83	85	82		"	Cum	4	"	Steaming 4 boilers.
6	7	0	"	"	3	29.95	83	85	82		"	"	8	"	Main try sail.
7	7	2	"	"	3	29.97	83	84	83	85	"	"	8	"	"
8	8	0	"	"	3	29.98	83	84	83	85	"	"	8	"	"
9	7	6	SSE 1/4 E	"	3	30.00	82	84	81	85	"	"	9	"	"
10	7	2	"	"	3	30.02	82	83	81	84	"	"	9	"	"
11	7	0	"	"	3	30.01	81	83	80	84	"	"	9	"	"
Mid.	7	2	"	"	3	30.00	81	83	80	84	b	None	10	"	"

Longitude by Chronometer from Afternoon Observations ⊕	°	' "
Longitude by Chronometer Observations *	°	' "
Variation of the Compass by Amplitude	°	' "
Variation of the Compass by	°	' "

under the command of Commander Winfield Scott Schley, U. S. Navy.
Monday October 8th, 1877.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Overcast and cloudy. Light N.E. breeze, freshening in gusts during last hour. Lightening around horizon to N. and E. Barometer falling slowly.

(Signed) Clinton K. Curtis
Lieut.

From 4 to 8 A.M. Cloudy. Warm. Lightening first hours. Cum. Nimb. clouds. Commenced coaling. At 8 water lighter came alongside. Received in Pay Dept. 158 lbs fresh beef and 140 lbs vegetables. Fires banked in two boilers. Distilling.

(Signed) Samuel C. Lemly
Ensign.

From 8 to Merid. Cloudy, warm. Light variable airs. Engaged in coaling ship. Total received on board 159 tons. At 12 started fires in four boilers. Received 1700 galls. fresh water. Barometer falling slowly.

(Signed) Charles B. T. Moore
Ensign.

From Merid. to 4 P.M. Cloudy and warm. Light breeze from N. and W. first part, from S. latter part of watch. At 2 got underway and steamed out of port. Draught forward 14 feet 4 in. Amidships 15 feet 3 in. Aft 16 feet 2 in. Steaming with four boilers. Steam pressure 63 lbs. Revolutions 42. The Commander of the Portuguese gunboat "Sado" visited the Commanding Officer.

(Signed) James K. Cogswell
Lieut.

From 4 to 6 P.M. Clear and pleasant. Light breeze from N.E. Barometer steady. At 4 took departure. Lat. 16. 47 N. Long 25.02 W. Average steam 60 lbs. Revolutions 43. Steaming four boilers.

(Signed) Clinton K. Curtis
Lieut.

From 6 to 8 P.M. Clear. Pleasant. Damp. Cumulus clouds. Moon set at 6.50. Steaming four boilers. Steam 60 lbs. Revolutions 47.

(Signed) Samuel C. Lemly
Ensign.

From 8 to Midnight. Clear. Pleasant. Gentle breeze from S.E. Steaming with four boilers. Steam pressure 60 lbs. Revolutions 43.

(Signed) Charles B. T. Moore
Ensign.

(Signed) Asa Walker
Lieut.
Navigator.

Examined and found to be correct

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, At Sea.

Hour.	Knots Fathoms.		WINDS.			BAROMETER.			TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prog. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
			Courses steered.	Direction.	Force.	Legacy.	Height in inches.	Ther. at'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A.M.																
1	7	4	SSE 1/4 E	SE	2		30.00	81	82	81		bc	Cum	9	S	Steaming four boilers.
2	7	4	"	"	3		30.00	81	82	81		"	"	8	"	"
3	7	2	"	"	3		29.98	81	82	81		"	"	9	"	"
4	8	0	"	"	3		29.95	81	82	80		"	"	9	"	"
5	7	4	"	"	3		29.95	81	83	79		"	"	8	"	"
6	7	4	"	"	3		29.95	81	83	80		"	"	9	"	"
7	7	4	"	"	2		29.95	82	84	81		"	"	9	"	"
8	3 3	4	SSE	"	2		29.98	82	84	81		"	"	5	"	Main trysail.
9				ESE	1		29.98	82	85	82		"	"	8	"	
10			Standing in for Porta Praya	S	2		29.97	83	85	84		"	"	8	"	
11			under direction of navigator.	W	2		29.96	83	87	86		"	"	8	"	
Noon				N	2		29.94	84	88	85		"	"	8	"	

Distance run by Log since preceding Noon	knots	fathoms.
Latitude by D. R. at Noon	0	"
Longitude by D. R. at Noon	0	"
Latitude by Observations at Noon ⊕	0	"
Longitude by Chronometer from Forenoon Observations ⊕	0	"
Current during the time knots fms. per hour, setting to the	0	"
Variation of the Compass by Amplitude ⊕ observed at Sunrise	0	"
Variation of the Compass by Azimuth ⊕ observed at	0	"
Water expended during the preceding 24 hours		230 gallons.
Water during the preceding 24 hours		"
Water remaining on hand fit for me at Noon		2690 "
Coal consumed during the preceding 24 hours	5 tons	1950 lbs.
Coal remaining on hand at Noon	197 "	2065 "

P.M.																
1	At Anchor	S	2		29.92	85	88	86	bc	Cum	7	S				
2		NE	2		29.90	85	88	85	"	"	8	"				
3		"	3		29.90	85	88	84	"	"	9	"				
4		"	2		29.91	86	89	84	"	"	9	"				
5		"	3		29.91	86	88	85	"	"	8	"				
6		"	2		29.92	85	87	84	"	"	9	"				
7		"	2		29.93	85	85	83	"	"	9	"				
8		"	1		29.95	83	85	82	"	"	9	"				
9		E	2		29.95	83	84	82	"	Cir Cum	8	"				
10		"	2		29.97	82	83	82	"	"	8	"				
11		"	2		29.96	81	82	81	"	"	8	"				
Mid.		"	2		29.95	81	81	81	"	"	8	"				

Longitude by Chronometer from Afternoon Observations ⊕	0	"	"
Longitude by Chronometer Observations *	0	"	"
Variation of the Compass by Amplitude observed at Sunset	0	"	"
Variation of the Compass by at	0	"	"

under the command of Commander Winfield Scott Schley, U. S. Navy.
Tuesday October 9th, 1877.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear and pleasant. Damp light breeze from S.E. Steaming with four boilers. Average pressure 63 lbs. Revolutions 43.

(Signed) James K. Cogswell
Lieut.

From 4 to 8 A.M. Clear and pleasant. Light breeze from S.E. Barometer rising. At 5.20 made land bearing (pc) S. by E. At 6 made land bearing (pc) E.S.E. and W.S.W. Steaming four boilers. Steam pressure 60 lbs. Revolutions 43. Changed course at 7.35 to S.S.E.

(Signed) Clinton K. Curtis
Lieut.

From 8 to Merid. Clear. Warm. Cumulus clouds. Light variable airs. Standing in Porta Praya. Steaming four boilers. At 11.55 came to in 8 1/4 fathoms water, veering to 45 fathoms port chain. Draught forward fourteen feet + in. Amidships 15 feet 3 in. Aft 16 feet 2 in. Bearings at anchor. N. end of Quail Island N.W. 3/4 N. Puerta Tennenroza W.S.W. Average pressure 60 lbs. Revolutions 46 1/2.

(Signed) Samuel C. Lemly
Ensign.

From Merid. to 4 P.M. Clear, warm. Light breeze from N. and E. The American Consul visited the ship. Fires banked in four boilers.

(Signed) Charles B. T. Moore
Ensign.

From 4 to 8 P.M. Clear and pleasant. Light breeze from N.E. Fires banked in four boilers. Average pressure 25 lbs.

(Signed) James K. Cogswell
Lieut.

From 8 to Midnight. Clear. Cool. Pleasant. Damp. Light E[aster]ly breeze. Cir. Cum. clouds. Fires banked in four boilers. Average pressure 25 lbs.

(Signed) Samuel C. Lemly
Ensign.

(Signed) Asa Walker
Lieut.
Navigator.

Examined and found to be correct

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Porta Praya, Cape de Verd Islands

				WINDS.		BAROMETER.		TEMPERATURE.										Record of the sail the vessel is under at end of watch.
Hour.	Knots		Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. at'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.	State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.			
Fathoms.																		
A.M.																		
1				NE	2		29.93	81	83	80		bc	Cum	8				
2				"	2		29.91	81	83	80		"	"	9				
3				"	3		29.91	81	82	80		"	"	9				
4				"	3		29.92	81	82	79		"	"	9				
5				"	3		29.90	80	82	79		"	"	9				
6				"	3		29.90	81	83	80		"	"	9				
7				"	3		29.90	81	83	80		"	"	9				
8				"	3		29.91	82	83	81		"	"	9				
9				"	3		29.93	83	85	82		"	"	9				
10				"	3		29.94	83	86	82		"	"	9				
11				"	3		29.93	84	87	82		"	"	8				
Noon				"	3		29.92	85	87	82		"	"	8				
Distance run by Log since preceding Noon												knots	fathoms.					
Latitude by D. R. at Noon												0	"	"	"	"		
Longitude by D. R. at Noon												0	"	"	"	"		
Latitude by Observations at Noon ⊕												0	"	"	"	"		
Longitude by Chronometer from Forenoon Observations ⊕												0	"	"	"	"		
Current during the time												knots	fms. per hour, setting to the					
Variation of the Compass by Amplitude ⊕ observed at Sunrise												0	"	"	"	"		
Variation of the Compass by Azimuth ⊕ observed at												0	"	"	"	"		
Water expended during the preceding 24 hours													330 gallons.					
Water													during the preceding 24 hours					
Water remaining on hand fit for me at Noon													2190					
Coal consumed during the preceding 24 hours												4	tons	690	lbs.	"		
Coal remaining on hand at Noon												193	"	1375	"	"		
P.M.																		
1				NE	3		29.91	84	86	82		bc	Cum	8	S			
2					3		29.90	83	85	81		"	"	8	"			
3	6	0	SSE 3/4 E	ENE	3		29.88	82	84	80		"	"	8	"	All plain sail		
4	9	4	"	"	3		29.87	82	84	80		"	"	7	"	except mainsail.		
5	8	6	"	E by N	3		29.88	82	83	79	84	"	"	3	"	"		
6	8	6	"	"	3		29.90	82	83	78	84	"	"	8	"	"		
7	4	6	SE by S	"	3		29.92	81	83	79	84	"	"	9	"	"		
8	5	0	"	"	3		29.92	81	83	79	84	"	"	9	"	"		
9	4	6	"	"	3		29.94	82	83	79	83	"	"	9	"	Same with mainsail.		
10	4	6	"	"	3		29.95	82	83	79	83	"	"	8	"	"		
11	5	2	"	"	3		29.93	82	83	79	83	"	"	8	"	"		
Mid.	4	2	"	"	3		29.93	82	83	79	83	"	"	8	"	"		
Longitude by Chronometer from Afternoon Observations ⊕												0	"	"	"	"		
Longitude by Chronometer Observations													*	0	"	"	"	
Variation of the Compass by Amplitude													observed at Sunset	0	"	"	"	
Variation of the Compass by													at	0	"	"	"	

under the command of Commander Winfield Scott Schley, U. S. Navy.
Wednesday October 10th, 1877.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear and pleasant. Light breeze from N. and E. Fires banked in four boilers.

(Signed) Charles B. T. Moore
Ensign.

From 4 to 8 A.M. Clear and pleasant. Light breeze from N.E. Fires banked in four boilers.

(Signed) James K. Cogswell
Lieut.

From 8 to Merid. Clear and pleasant. Moderate breeze from N.E. Barometer falling slowly. At 9.15 inspected at quarters. Exchanged colors with an American schooner leaving harbor. Fires banked in four boilers.

(Signed) Clinton K. Curtis
Lieut.

From Merid. to 4 P.M. Clear. Warm. At 1.10 a Portuguese officer paid official visit to the ship. At 1.45 steam reported ready. At 2 got underway and stood out under steam in four boilers. Draught forward 14 feet 3 in. Amidships 15 feet 2 in. Aft 16 feet 2 in. At 2.40 set fore and aft sail. At 3.10 made all plain sail except mainsail. By order of Commanding Officer, Thos. Fole (2.C.F.) was placed in solitary confinement, bread and water, for skulking and disobedience of orders. By order of Commanding Officer, Herman Meyer and William White, ordinary seamen second class, for skulking, are to stand their watches on quarter deck until further orders. Steaming under four boilers. Average pressure 60 lbs. Revolutions 50. At 2 stopped distilling.

(Signed) Samuel C. Lemly
Ensign.

From 4 to 6 P.M. Clear and pleasant. Light breeze from E. by N. Steaming with four boilers. At sunset mustered at quarters. At 6 stopped steaming.

(Signed) Charles B. T. Moore
Ensign.

From 6 to 8 P.M. Clear and pleasant. Right breeze from N.E. At 6 changed course to S.E. by S. Banked fires in four boilers. Distilling.

(Signed) James K. Cogswell
Lieut.

From 8 to Midnight. Clear and pleasant. Light breeze from N. and E. Barometer falling slowly. At 9 set double reefed mainsail. Fires banked in two boilers. Distiller in operation.

(Signed) Clinton K. Curtis
Lieut.

(Signed) Asa Walker
Lieut.
Navigator.

Examined and found to be correct

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, At Sea,

Hour.	Knots Fathoms.		WINDS.			BAROMETER.			TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
			Courses steered.	Direction.	Force.	Legacy.	Height in inches.	Ther. at'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A.M.																
1	4	2	SE by S	ENE	2		29.91	82	83	79	83	bc	Cum	9	S	All plain sail
2	4	0	"	"	2		29.90	82	83	79	83	"	Cum Nimb	6	"	Double reefed
3	4	2	"	"	2		29.90	82	83	79	83	"	Cum	8	"	M. sail
4	4	2	"	"	2		29.90	82	83	79	83	"	"	9	"	"
5	3	6	"	"	2		29.92	82	83	79	84	"	"	9	"	"
6	4	4	"	NE by E	2		29.92	82	83	80	84	"	"	4	"	"
7	5	0	"	"	2		29.94	82	83	80	84	"	"	5	"	"
8	5	4	"	ENE	3		29.95	82	83	80	84	"	"	4	"	"
9	5	6	"	"	3		29.96	81	84	80	84	"	"	8	"	"
10	5	4	"	"	3		29.96	81	84	80	84	"	"	9	"	"
11	4	2	"	"	2		29.94	81	84	80	84	"	Cir Cum	9	"	"
Noon	2	4	"	"	2		29.92	81	84	80	84	"	"	9	"	"

Distance run by Log since preceding Noon	115 knots	2 fathoms.
Latitude by D. R. at Noon	13 °	39 ' 00 "N.
Longitude by D. R. at Noon	22 °	00 ' 00 "W.
Latitude by Observations at Noon ⊕	13 °	45 ' 00 "N.
Longitude by Chronometer from Forenoon Observations ⊕	22 °	07 ' 00 "W.
Current during the time knots 2 fms. per hour, setting to the N.W.		
Variation of the Compass by Amplitude ⊕ observed at Sunrise	°	" "
Variation of the Compass by Azimuth ⊕ observed at 7.30 A.M.	18 °	50 " 00 " W.
Water expended during the preceding 24 hours		230 gallons.
Water Condensed during the preceding 24 hours		500 "
Water remaining on hand fit for me at Noon		2460 "
Coal consumed during the preceding 24 hours	1 tons	310 lbs.
Coal remaining on hand at Noon	192 "	1065 "

P.M.

1	3	0	SE by S	ENE	2		29.90	82	85	81	84	bc	Cum	9	S	All plain sail
2	3	0	"	"	2		29.90	82	85	82	84	"	"	9	"	double reefed
3	3	4	SSE 3/4 E	"	2		29.89	82	86	82	84	"	"	9	"	Mainsail.
4	3	4	SE by S	"	2		29.89	82	85	81	84	"	"	9	"	"
5	4	0	"	"	2		29.89	82	85	82	84	"	"	5	"	"
6	3	4	"	"	2		29.89	82	85	82	84	"	"	7	"	"
7	1	6	"	"	2		29.91	82	84	81	84	"	"	6	"	"
8	2	0	"	"	2		29.93	83	84	80	84	"	"	9	"	"
9	2	4	"	"	2		29.93	83	84	80	84	"	"	9	"	"
10	3	0	"	"	2		29.95	82	84	80	84	"	"	9	"	"
11	3	2	S by E 1/2 E	E by S	2		29.95	83	84	80	84	"	"	8	"	"
Mid.	3	0	"	"	2		29.95	83	82	80	84	"	"	9	"	"

Longitude by Chronometer from Afternoon Observations ⊕	°	'	"
Longitude by Chronometer Observations *	°	'	"
Variation of the Compass by Amplitude observed at Sunset	°	'	"
Variation of the Compass by at	°	'	"

under the command of Commander Winfield Scott Schley, U. S. Navy.
Thursday October 11th, 1877.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear. Pleasant. Light E. N. E. breeze. Cum. Nimb. clouds. Fires banked in two boilers. Average pressure 25 lbs. Distilling.

(Signed) Samuel C. Lemly
Ensign.

From 4 to 8 A.M. Cloudy, pleasant. Light breeze from N. and E. Exchanged colors with an English steamer standing to N. and W. Fires banked in two boilers. Average pressure 25 lbs. Distilling.

(Signed) Charles B. T. Moore
Ensign.

From 8 to Merid. Clear and warm. Light breeze from E. N. E. At 9.15 inspected at quarters. Fires banked in two boilers. Average pressure 25 lbs.

(Signed) James K. Cogswell
Lieut.

From Merid. to 4 P.M. Clear, warm. Light breeze from N. and E. Barometer falling slowly. Fires banked in two boilers. Distiller in operation.

(Signed) Clinton K. Curtis
Lieut.

From 4 to 6 P.M. Clear, warm. Light E. N. E. breeze. Cumulus clouds. At 5.55 mustered at quarters. Fires banked in two boilers. Steam pressure 25 lbs. Distilling.

(Signed) Samuel C. Lemly
Ensign.

From 6 to 8 P.M. Clear and pleasant. Light airs from E. N. E. Fires banked in two boilers. Steam pressure 25 lbs. Distilling.

(Signed) Charles B. T. Moore
Ensign.

From 8 to Midnight. Clear and pleasant. Light airs from N. and E. Wind rising and hauling. Passed through a number of tide rips. Fires banked in two boilers. Steam pressure 24 lbs. Distilling.

(Signed) James K. Cogswell
Lieut.

(Signed) Asa Walker
Lieut.
Navigator.

Examined and found to be correct

under the command of Commander Winfield Scott Schley, U. S. Navy.
Friday October 12th, 1877.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear and pleasant. Light breeze from E. Barometer steady. Fires banked in two boilers. Distilling.

(Signed) Clinton K. Curtis
Lieut.

From 4 to 8 A.M. Clear. Pleasant. Warm. Light E[aster]ly breeze. Cum. Nimb. clouds. At 7.10 stopped distiller and hauled fires. At 7.40 shook one reef out of mainsail.

(Signed) Samuel C. Lemly
Ensign.

From 8 to Merid. Clear, warm. Gentle breeze E. N. E. At 9.15 exercised at fire quarters. Inspected at quarters. By order of Commanding Officer, Thomas Foley (2.C.F.) was released from confinement.

(Signed) Charles B. T. Moore
Ensign.

From Merid. to 4 P.M. Cloudy and warm. Light breeze from N. and E. Light swell from N.E.

(Signed) James K. Cogswell
Lieut.

From 4 to 6 P.M. Clear and pleasant. Moderate breeze from N. and E. Barometer steady. At 5.45 mustered at quarters.

(Signed) Clinton K. Curtis
Lieut.

From 6 to 8 P.M. Partially clear. Pleasant. Moderate E[aster]ly breeze. Cir. Cum. Nimb. clouds. Passing showers last hour.

(Signed) Samuel C. Lemly
Ensign.

From 8 to Midnight. Cloudy, pleasant. Moderate breeze from E. N. E. Moon set at 10.20.

(Signed) Charles B. T. Moore
Ensign.

(Signed) Asa Walker
Lieut.
Navigator.

Examined and found to be correct

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, At Sea.

Hour.	Knots Fathoms.		Courses steered.	WINDS.		Leeway.	BAROMETER.		TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
				Direction.	Force.		Height in inches.	Ther. alt'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A.M																
1	6	0	SE by S	NE by E	3		29.90	83	84	80	84	bd	Cum	8		All plain sail.
2	6	4	"	"	4		29.89	83	84	80	84	"	"	8	"	single reefed
3	7	0	"	"	4		29.87	83	84	80	84	"	"	8	"	Mainsail.
4	7	4	"	"	4		29.86	83	84	81	84	"	"	8	"	"
5	7	4	"	"	4		29.85	83	85	81	84	"	bc	7	"	"
6	7	0	"	"	4		29.85	83	85	82	84	"	"	3	"	"
7	7	0	"	"	3-4		29.85	83	85	82	84	bcq	"	1	"	"
8	6	0	"	"	3-4		29.90	83	86	82	84	"	"	1	"	"
9	6	4	"	NE	4		29.92	83	85	82	84	"	"	2	"	"
10	6	0	"	E by N	3		29.91	81	83	80	84	bcqp	"	1	"	"
11	4	2	SSE 1/2 E	E 1/2 N	3		29.90	82	84	80	84	bc	"	1	"	"
Noon	3	4	SE by S	E by N	4		29.88	82	85	82	84	"	"	1	"	"

Distance run by Log since preceding Noon

149 knots

6 fathoms.

Latitude by D. R. at Noon

11 ° 06 ' 00 "N.

Longitude by D. R. at Noon

18 ° 58 ' 00 "W.

Latitude by Observations at Noon ⊕

11 ° 08 ' 00 "N.

Longitude by Chronometer from Forenoon Observations ⊕

19 ° 10 ' 30 "W.

Current during the time knots 4 fms. per hour, setting to the W.

Variation of the Compass by Amplitude ⊕ observed at Sunrise

° " "

Variation of the Compass by Azimuth ⊕ observed at 7.30 A.M.

18 ° 40 " 00 "W.

Water expended during the preceding 24 hours

230 gallons.

Water during the preceding 24 hours

"

Water remaining on hand fit for me at Noon

2400 "

Coal consumed during the preceding 24 hours

tons 250 lbs.

Coal remaining on hand at Noon

191 " 635 "

P.M.

1	3	0	SE by S	E by N	2		29.85	83	85	82	85	bc	Cum Nimb	2	S	All plain sail,
2	2	6	"	"	1-2		29.84	83	86	83	86	"	"	3	"	single reefed
3	3	4	"	ENE	2		29.83	83	86	83	86	"	"	2	"	mainsail
4	5	0	"	"	3		29.83	83	86	83	86	"	"	4	"	"
5	5	4	S	E	3-5		29.83	81	83	80	86	bcp	"	4	"	Same except royals
6	3	6	SSE	E by S	3		29.82	82	83	80	86	"	"	"	"	"
7	2	0	S by E	"	1-2		29.85	83	83	80	86	"	"	"	"	"
8	2	4	SSE 1/2 E	E	1-2		29.87	83	82	80	86	"	"	"	"	"
9	3	0	SE by S	E by N	2		29.89	83	84	81	86	"	"	"	"	"
10	1	4	"	"	0-1		29.88	83	85	81	86	"	"	"	"	"
11	0	4	"	"	0-1		29.87	83	85	82	86	"	"	"	"	"
Mid.	0	4	"	"	0-1		29.85	83	85	83	86	"	"	"	"	"

Longitude by Chronometer from Afternoon Observations ⊕

° ' "

Longitude by Chronometer Observations

*

° ' "

Variation of the Compass by Amplitude

observed at Sunset

° ' "

Variation of the Compass by

at

° ' "

under the command of Commander Winfield Scott Schley, U. S. Navy.
Saturday October 13th, 1877.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear and pleasant. Moderate breeze from N. and E.

(Signed) James K. Cogswell
Lieut.

From 4 to 8 A.M. Cloudy. Pleasant. Moderate breeze, with puffs, from N. and E. Squally around horizon. Barometer rising.

(Signed) Clinton K. Curtis
Lieut.

From 8 to Merid. Cloudy. Squally. Moderate. E[aster]ly breeze first part of watch, light breeze latter part. Cum. Nimb. clouds.

(Signed) Samuel C. Lemly
Ensign.

From Merid. to 4 P.M. Cloudy, warm. Light breeze from N. and E. Barometer falling slowly.

(Signed) Charles B. T. Moore
Ensign.

From 4 to 6 P.M. Cloudy and pleasant. Moderate breeze from S. and E. At 5 reduced sail to a squally, took in light sails and clewed down topsails, hauled out reef tackles, during which the end of flying jib boom was carried away. Afterwards made sail to top gallant sails.

(Signed) James K. Cogswell
Lieut.

From 6 to 8 P.M. Cloudy. Light airs from E. Barometer rising slowly.

(Signed) Clinton K. Curtis
Lieut.

From 8 to Midnight. Cloudy. Squally. Passing showers. At 10 took in spanker and mainsail. At 10.15 took in topgallant sails. Rigged out flying jib boom.

(Signed) Samuel C. Lemly
Ensign.

(Signed) Asa Walker
Lieut.
Navigator.

Examined and found to be correct

under the command of Commander Winfield Scott Schley, U. S. Navy.
Sunday October 14th, 1877.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear and pleasant. Light airs from N. and E. Lightening to N. and W.

(Signed) Charles B. T. Moore
Ensign.

From 4 to 8 A.M. Cloudy and pleasant. Light airs from N. and E. At 6 set topgallant sails. Heavy fall of rain at 8.

(Signed) James K. Cogswell
Lieut.

From 8 to Merid. Weather overcast. Light airs from N. and E. Frequent rain squalls. Shortened and made sail as occasion required. Barometer falling. During watch a water spout found on starboard beam, distant about three miles, traveling astern and to leeward, and lasting about ten minutes.

(Signed) Clinton K. Curtis
Lieut.

From Merid. to 4 P.M. Cloudy. Squally. Light N.E. and E[aster]ly N. breeze. Cum. Nimb. clouds. At 3.45 set gaff topsail.

(Signed) Samuel C. Lemly
Ensign.

From 4 to 6 P.M. Cloudy. Pleasant. Light airs from E. At 5 took in spanker and gaff topsail.

(Signed) Charles B. T. Moore
Ensign.

From 6 to 8 P.M. Cloudy and warm. Light airs from S. and E. Lightening in horizon to E. Barometer rising slowly.

(Signed) James K. Cogswell
Lieut.

From 8 to Midnight. Overcast, with light breeze from S. and E. first two hours. Squally. At 9.30 took in and furled royals, shortened and made sail as occasion required. At 11.30 wore ship to S. and E, wind shifting to S. and W. At 10.45 changed course to S.S.E. 3/4 E. Barometer falling.

(Signed) Clinton K. Curtis
Lieut.

(Signed) Asa Walker
Lieut.
Navigator.

Examined and found to be correct

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, At Sea.

Hour.	Knots Fathoms.		Courses steered.	WINDS.		Leeway.	BAROMETER.		TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prog. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
				Direction.	Force.		Height in inches.	Ther. at't'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A.M																
1	1	0	SE by S	SW by W	1		29.86	83	84	82	85	bclq	Cum Nimb	3	S	All plain sail
2	2	4	SSE 3/4 E	SW	2-3		29.86	83	85	82	85	bcl	"	3	"	to top gallant sail.
3	4	6	"	"	3		29.85	82	83	81	85	orl	"	0	"	"
4	5	0	"	SW to NW	3-5		29.85	82	83	81	85	"	"	0	"	"
5	1	0	"	WSW	2-5		29.85	82	82	80	85	org	"	0	"	"
6	2	0	"	W	2		29.87	82	82	80	85	or	"	0	"	"
7	3	4	"	WSW	2-4		29.86	82	82	81	86	bcpq	"	1	"	All plain sail
8	5	4	"	"	5		29.89	82	82	81	86	bcp	"	1	"	except royals, fly.
9	6	0	"	"	5		29.89	82	83	81	85	o	"	0	"	jib and gaff topsail.
10	5	6	SE by S	"	5		29.89	82	83	81	85	"	"	0	"	"
11	5	2	"	W	4		29.87	83	84	82	85	bc	"	2	"	"
Noon	6	2	"	"	4		29.86	83	85	83	85	o	"	1	"	"

Distance run by Log since preceding Noon	72 knots	6 fathoms.
Latitude by D. R. at Noon	9 °	49 ' 00 " N.
Longitude by D. R. at Noon	17 °	52 ' 30 " W.
Latitude by Observations at Noon ⊕	10 °	06 ' 00 " N.
Longitude by Chronometer from Forenoon Observations ⊕	18 °	01 ' 00 " W.
Current during the time	knots 6	fms. per hour, setting to the N. W. by W.
Variation of the Compass by Amplitude ⊕ observed at Sunrise	°	" "
Variation of the Compass by Azimuth ⊕ observed at 7.30 A.M.	18 °	20 " 00 " W.
Water expended during the preceding 24 hours		230 gallons.
Water		during the preceding 24 hours "
Water remaining on hand fit for me at Noon		1870 "
Coal consumed during the preceding 24 hours	tons	250 lbs.
Coal remaining on hand at Noon	191	" 135 "

P.M.

1	6	0	SE by S	W	3-4		29.84	83	85	83	85	oq	Cum Nimb	0	S	All plain sail
2	5	0	"	"	3		29.83	83	84	82	85	oqr	"	0	"	except royals.
3	2	0	"	SW	2-5		29.85	81	78	76	86	"	"	0	"	"
4	6	0	SSE	E by S	2-4		29.85	81	79	76	86	"	"	0	"	"
5	5	0	S by E	E 1/4 N	3		29.85	80	80	78	85	or	"	0	"	"
6	4	0	SSE 1/4 E	E by N	2-3		29.85	80	81	78	85	o	"	0	"	"
7	2	6	"	"	2		29.87	80	81	78	85	od	"	0	"	"
8	2	0	"	"	1-2		29.87	82	82	79	85	"	"	0	"	"
9	6	N	N	N	1		29.88	81	82	79	85	O	"	0	"	"
10	1	4	NW	NW	1		29.87	81	82	79	85	"	"	0	"	"
11	1	0	W	W	1		29.85	81	82	80	85	"	"	0	"	"
Mid.	4	"	"	"	1		29.85	81	82	80	85	"	"	0	"	"

Longitude by Chronometer from Afternoon Observations ⊕	°	'	"
Longitude by Chronometer Observations *	°	'	"
Variation of the Compass by Amplitude	°	'	"
Variation of the Compass by	°	'	"

under the command of Commander Winfield Scott Schley, U. S. Navy.
Monday October 15th, 1877.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Overcast. Squally. Heavy rain during watch. Light breeze from S. and W. increasing to strong breeze and shifting to N.W. At 12.45 set topgallant sails.

(Signed) Samuel C Lemly
Ensign.

From 4 to 8 A.M. Overcast with heavy rain squalls first hour. Fresh breeze from W.S.W. latter part. At 4.20 took in topgallant sails, mainsail and spanker. At 7.30 set them.

(Signed) Charles B. T. Moore
Ensign.

From 8 to Merid. Cloudy and warm. Moderate breeze from S. and W. At 9 changed course to S.E. by S. At 9.30 mustered at quarters. Barometer falling slowly. By order of Commanding Officer, Dennis Kuliher (Sea) was rated Ships Tailor from the 8th inst, inclusive.

(Signed) James K. Cogswell
Lieut.

From Merid. to 4 P.M. Overcast, squally and rainy. Wind fresh from S. and W. Shortened and made sail as occasion required. At 2.30 struck by squalls from E. by S. braced round, took in topgallant sails and clewed down topsails. Barometer rising slowly.

(Signed) Clinton K. Curtis
Lieut.

From 4 to 6 P.M. Overcast. Pleasant. Light E[aster]ly breeze. Cum. Nimb. clouds. At 5.45 mustered at quarters.

(Signed) Samuel C. Lemly
Ensign.

From 6 to 8 P.M. Overcast with drizzling rain. Light variable airs.

(Signed) Charles B. T. Moore
Ensign.

From 8 to Midnight. Overcast and pleasant. Light airs from N. and W. Obscured moonlight. Long swell from S.

(Signed) James K. Cogswell
Lieut.

(Signed) Asa Walker
Lieut.
Navigator.

Examined and found to be correct

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, At Sea.

Hour.	Knots Fathoms.	Courses steered.	WINDS.		Force.	Leeway.	BAROMETER.		TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prog. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.	
			Direction.				Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.						
A.M.																	
1	No steerage way		Calm	~		29.84	81	84	81	85	oq	Cum Nimb	1	S			
2	" "		"	~		29.83	81	84	80	85	bcq	"	1	"			
3	1	0	SE by S	SW by W	1	29.83	81	84	80	85	"	"	1	"			
4	1	4	"	N and W	1-2	29.83	81	84	80	85	"	"	2	"			
5	2	4	"	NNW	2	29.83	81	84	80	85	bc	"	5	"		All plain sail	
6	3	4	"	NW by W	3	29.84	81	83	81	85	"	"	6	"		except flying jib.	
7	5	4	"	NE	3	29.85	81	84	81	85	"	"	5	"	"		
8	6	4	"	"	4	29.87	81	83	81	85	"	"	3	"	"		
9	3	2	se 1/2 s	ENE	4	29.88	81	84	81	85	"	"	4	"	"		
10	6	6		"	4	29.88	82	84	81	85	"	"	3	"	"		
11	6	4	"	"	3	29.87	82	84	81	85	"	"	4	"	"		
Noon	5	2	"	"	3	29.85	82	84	81	85	"	"	3	"	"		
Distance run by Log since preceding Noon											82 knots		6 fathoms.				
Latitude by D. R. at Noon											9 °	13 '	00 "	" N.			
Longitude by D. R. at Noon											16 °	57 '	00 "	" W.			
Latitude by Observations at Noon ☉											9 °	05 '	25 "	" N.			
Longitude by Chronometer from Forenoon Observations ☉											16 °	47 '	30 "	" W.			
Current during the time			knots	4	fms. per hour, setting to the			S.E. 1/4 E.			°	"	"				
Variation of the Compass by Amplitude ☉ observed at Sunrise											°		"	"			
Variation of the Compass by Azimuth ☉ observed at 7.30 A.M.											22 °	30 "	00 "	" W.			
Water expended during the preceding 24 hours											230 gallons.						
Water			during the preceding 24 hours								"						
Water remaining on hand fit for me at Noon													1600	"			
Coal consumed during the preceding 24 hours											1	tons	310	lbs.			
Coal remaining on hand at Noon											189	"	2065	"			
P.M.																	
1	4	6	SSE 1/2 E	ENE	3	29.83	82	83	80	85	bc	Cum Nimb	1	S	All plain sail		
2	4	0	SSE 3/4 E	NE by E	3	1/4	29.78	82	83	80	85	"	"	1	"	except flying jib.	
3	3	0	SE 3/4 S	"	2	1/4	29.78	82	83	80	85	"	"	1	"	"	
4	1	4	SE by S	"	1		29.78	82	83	80	85	"	"	1	"	"	
5	1	0	SSE	N and E	1		29.80	82	84	81	85	"	"	1	"	"	
6	1	0	S 1/2 E	"	1		29.80	82	84	81	85	"	"	2	"	"	
7	No steerage way		Variable	1		29.83	82	84	81	85	"	"		3	"	Topsails T. G. sails, jib	
8	"	"	Calm	0		29.85	82	84	81	85	"	"		4	"	F. T. M. S. S.	
9	"	"	"	0		29.86	82	84	81	85	"	"		6	"	All plain sail	
10	"	"	"	0		29.87	82	84	81	85	"	"		4	"	except flying jib.	
11	0	4	SE by S	ENE	1		29.87	82	84	81	85	"	"	5	"	"	
Mid.	0	4	S by E	E	1		29.86	82	84	81	85	"	"	6	"	"	

Longitude by Chronometer from Afternoon Observations ⊕

Longitude by Chronometer Observations

Variation of the Compass by Amplitude

Variation of the Compass by

° ' "

*

observed at Sunset

at

under the command of Commander Winfield Scott Schley, U. S. Navy.
Tuesday October 16th, 1877.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Overcast. Light variable airs. Squally around horizon. At squared away and took in mainsail. Barometer falling slowly.

(Signed) Clinton K. Curtis
Lieut.

From 4 to 8 A.M. Clear. Pleasant. Light breeze from N. and W, shifting to N.E. at end of watch. At 6.30 set lee clew of mainsail. At 6.45 set royals. At 7.15 set spanker, gaff topsail and weather clew of mainsail.

(Signed) Samuel C. Lemly
Ensign.

From 8 to Merid. Cloudy, pleasant. Moderate breeze from E. N. E. At 8.30 changed course to S. E. 1/2 S. At 9.15 inspected at quarters. Barometer falling slowly.

(Signed) Charles B. T. Moore
Ensign.

From Merid. to 4 P.M. Cloudy and warm. Gentle breeze from N. and E. At 2 took in close reef in mainsail. At 3.40 started fires in two boilers. Barometer falling slowly.

(Signed) James K. Cogswell
Lieut.

From 4 to 6 P.M. Cloudy. Pleasant. Light variable airs. Barometer steady. Started distiller at 5. At 5.45 mustered at quarters.

(Signed) Clinton K. Curtis
Lieut.

From 6 to 8 P.M. Partially clear. Variable airs. At 6.15 clewed up royals. At 6.30 caught aback, boxed her off on starboard tack. At 7.15 hauled up courses. Fires banked in two boilers. Steam pressure 30 lbs. Distilling.

(Signed) Samuel C. Lemly

From 8 to Midnight. Cloudy. Pleasant. Calm and light variable airs. At 8.45 caught aback, braced around, set courses, royals and spanker. Fires banked in two boilers. Distilling.

(Signed) Charles B. T. Moore
Ensign.

(Signed) Asa Walker
Lieut.
Navigator.

Examined and found to be correct

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, At Sea.

Hour.	Knots Fathoms.	Courses steered.	WINDS.		Force.	Leeway.	BAROMETER.		TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
			Direction.				Height in inches.	Ther. alt'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A.M.																
1	4	SE 1/2 S	WNW	1		29.87	81	83	82	85	bc	Cum Nimb	7	S	Jib, F.T.M.S.S.	
2	2 0	"	NE	3		29.87	81	83	82	85	op	"	0	"	Topsails.	
3	2 0	"	W	1		29.82	81	83	80	85	o	"	0	"	"	
4	No steerage way		Calm	0		29.81	81	83	80	85	"	"	0	"	"	
5	0 4	S by W	SE by E	3		29.83	82	81	78	85	pcq	"	2	"	"	
6	1 4	S	ESE	1		29.83	82	81	80	85	oqr	"	0	"	"	
7	4	SSE	W	1		29.82	80	81	80	85	bcqr	"	4	"	"	
8	1 0	SE 1/2 S	W	1		29.84	80	81	80	85	bcq	"	5	"	"	
9	1 6	"	NW	1		29.86	80	82	80	85	bc	"	4	"	"	
10	1 0	"	"	1		29.85	83	83	80	85	"	"	5	"	"	
11	4	"	"	1		29.85	83	83	82	85	"	"	5	"	"	
Noon	1 4	"	WSW	1		29.85	83	85	83	85	"	"	5	"	Steaming four boilers.	

Distance run by Log since preceding Noon	29 knots	0 fathoms.
Latitude by D. R. at Noon	8 °	47 ' 00 " N.
Longitude by D. R. at Noon	16 °	26 ' 00 " W.
Latitude by Observations at Noon ⊕	8 °	39 ' 00 " N.
Longitude by Chronometer from Forenoon Observations ⊕	16 °	32 ' 00 " W.
Current during the time	knots 3	fms. per hour, setting to the S.W. 1/4 S.
Variation of the Compass by Amplitude ⊕ observed at Sunrise	°	" "
Variation of the Compass by Azimuth ⊕ observed at 8 A.M.	21 °	30 " 00 " W.
Water expended during the preceding 24 hours		230 gallons.
Water Condensed during the preceding 24 hours		700 "
Water remaining on hand fit for me at Noon		1700 "
Coal consumed during the preceding 24 hours	5 tons	1830 lbs.
Coal remaining on hand at Noon	184 "	1235 "

P.M.																
1	7 0	SE	NE		3		29.81	82	81	81	85	or	Cum Nimb	0	S	Jib. F. T. M. S. S.
2	8 2	"	SE by E		2-4		29.80	82	80	78	85	orq	"	0	"	Main try sail and
3	8 4	"	E		1		29.79	82	80	78	85	or	"	0	"	Spanker.
4	8 0	"	NE		1		29.78	81	81	79	85	bcp	"	0	"	"
5	7 2	"	"		1		29.78	81	81	79	85	o	"	2	"	"
6	7 0	"	"		1		29.75	81	82	79	85	bc	"	0	"	"
7	6 4	"	E by N		1		29.85	82	82	78	85	"	"	1	"	"
8	7 0	"	"		2		29.85	80	82	78	85	"	"	2	"	"
9	6 6	"	S		3		29.85	78	82	78	85	or	"	2	"	"
10	8 0	"	"		3		29.87	78	82	78	85	"	"	0	"	"
11	8 0	"	"		3		29.85	78	82	78	85	op	"	0	"	"
Mid.	6 0	"	"		3		29.85	78	82	78	85	"	"	0	"	"

Longitude by Chronometer from Afternoon Observations ⊕	°	'	"
Longitude by Chronometer Observations	°	'	"
Variation of the Compass by Amplitude	°	'	"
Variation of the Compass by	°	'	"

under the command of Commander Winfield Scott Schley, U. S. Navy.
Wednesday October 17th, 1877.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Light variable airs. Passing showers. At 12 took in royals and courses to a squall.

(Signed) James K. Cogswell
Lieut.

From 4 to 8 A.M. Cloudy. Rainy. Squally. Light variable airs. Braced around at 4.45 and 7.30. Barometer rising slowly. Fires banked in two boilers. Distilling.

(Signed) Charles K. Curtis
Lieut.

From 8 to Merid. Partially clear. Warm. Light W[ester]ly airs. At 8.15 set gaff topsail and royals. At 9.15 inspected at quarters. At 10 started fires in two boilers. Hauled up mainsail. At 11 took in spanker and gaff topsails. At 11.30 took in royals. At 11.35 shortened and furled sail and sent down light yards. At 11.45 started ahead under steam in four boilers. At 11.25 stopped distilling. At 12 changed course to S.E. Steam pressure 40 lbs. Revolutions 33.

(Signed) Samuel C. Lemly
Ensign.

From Merid. to 4 P.M. Overcast, with heavy rain squalls. Light variable breeze. Steaming with four boilers. At 12.50 set jib, fore topmast staysail, main trysail and spanker. Steam pressure 55 lbs. Revolutions 46.

(Signed) Charles B. T. Moore
Ensign.

From 4 to 6 P.M. Cloudy and pleasant. Light airs from N. and E. At 5.50 mustered at quarters. Steaming with four boilers. Steam pressure 55 lbs. Revolutions 44.

(Signed) James K. Cogswell
Lieut.

From 6 to 8 P.M. Cloudy. Pleasant. Light breeze from N. and E. Took in all fore and aft sail except main trysail. At 6 got cast of deep sea lead, no bottom at 100 fathoms. Steaming four boilers. Steam pressure 60 lbs. Revolutions 44.

(Signed) Clinton K. Curtis
Lieut.

From 8 to Midnight. Overcast. Rainy. Moderate breeze from S. At 9.30 set all fore and aft sail except gaff topsail. At 11 stopped engines and got cast of deep sea lead, no bottom at 120 fathoms. At 11.20 started ahead on course. Steam in four boilers. Steam pressure 65 lbs. Revolutions 42.

(Signed) Samuel C. Lemly
Ensign.

(Signed) Asa Walker
Lieut.
Navigator.

Examined and found to be correct

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, At Sea.

Hour.	Knots Fathoms.		WINDS.			BAROMETER.		TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prog. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.	
			Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. at'd.	Air Dry Bulb.	Air Wet Bulb.						Water at surface.
A.M.																
1	8	2	SE	S	3		29.82	78	82	80	84	od	Cum Nimb	0	S	Jib, F.T.M.S.S.
2	7	4	"	"	2-4		29.80	79	82	80	84	ogp	"	0	"	M. trysail and spanker
3	7	4	"	"	3		29.78	79	81	79	84	op	"	0	"	"
4	6	0	"	"	3		29.78	79	81	79	84	"	"	0	"	"
5	7	6	"	"	4		29.80	79	82	80	84	bc	"	3	M	Same, with topsails
6	7	2	"	SW	4		29.81	79	82	80	84	"	"	1	"	and foresail.
7	8	0	"	"	5		29.81	79	82	80	83	bcp	"	2	"	"
8	8	2	"	"	5		29.81	79	82	80	83	bc	"	6	"	"
9	6	0	"	"	4		29.83	79	82	80	83	"	"	2	"	"
10	4	0	"	"	4		29.85	80	82	80	83	bcqr	"	2	"	"
11	5	4	SE 1/2 S	"	3		29.83	80	82	80	83	oq	"	2	"	"
Noon	4	0	"	"	3		29.83	80	82	80	83	"	"	0	"	"

Distance run by Log since preceding Noon 168 knots 2 fathoms.

Latitude by D. R. at Noon 7 ° 19 ' 00 " N.

Longitude by D. R. at Noon 14 ° 03 ' 00 " W.

Latitude by Observations at Noon ⊕ 7 ° 34 ' 48 " N.

Longitude by Chronometer from Forenoon Observations ⊕ 13 ° 51 ' 00 " W.

Current during the time knots 7 fms. per hour, setting to the N. 37° E.

Variation of the Compass by Amplitude ⊕ observed at Sunrise ° " "

Variation of the Compass by Azimuth ⊕ observed at 7.30 A.M. 21 ° 40 " 00 " W.

Water expended during the preceding 24 hours 230 gallons.

Water during the preceding 24 hours "

Water remaining on hand fit for me at Noon 1470 "

Coal consumed during the preceding 24 hours 8 tons 370 lbs.

Coal remaining on hand at Noon 175 " 2105 "

P.M.

1	5	0	SE 1/2 S	SW	4-8		29.83	80	82	80	83	orq	Cum Nimb	0	M	Double reefed topsail
2	4	4	SE by S	"	4-8		29.80	79	82	80	83	"	"	0	"	foresail, m. trysail,
3	8	0	"	"	5-8		29.79	79	82	80	83	"	"	0	R	fore top m. s. sail.
4	5	0	SSE	"	4-7		29.78	79	82	80	83	"	"	0	"	"
5	8	0	SE 1/2 S	"	5-7		29.79	82	80	79	83	"	"	0	"	"
6	8	0	"	"	4-6		29.81	82	81	78	83	opq	"	0	"	"
7	7	0	SE	SSW	4		29.87	80	82	80	83	oq	"	0	"	"
8	7	0	"	"	4		29.86	80	82	80	83	"	"	0	"	"
9	6	0	"	S by W	1-3		29.88	80	80	77	83	"	"	0	"	"
10	6	0	"	"	1-2		29.90	80	80	77	83	opq	"	0	"	"
11	6	4	"	SSW	2-4		29.89	80	80	77	83	"	"	0	"	Main try sail and
Mid.	7	0	"	"	4		29.86	80	80	77	83	oq	"	0	"	spanker

Longitude by Chronometer from Afternoon Observations ⊕ ° ' "

Longitude by Chronometer Observations * ° ' "

Variation of the Compass by Amplitude observed at Sunset ° ' "

Variation of the Compass by at ° ' "

under the command of Commander Winfield Scott Schley, U. S. Navy.
Tuesday October 18th, 1877.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Overcast, squally, rainy. Moderate breeze from S. Steaming with four boilers. At 3 stopped engine, got cast of deep sea lead. No bottom at 95 fathoms. Steam pressure 55 lbs. Revolutions 43.

(Signed) Charles B. T. Moore
Ensign.

From 4 to 8 A.M. Cloudy and pleasant. Fresh breeze from S.W. Passing showers of rain. At 5.30 set foresail. At 8 set topsails, crossed top gallant yards. Steaming with four boilers. Steam pressure 62 lbs. Revolutions 44. At 5 got cast of lead, no bottom at 110 fathoms.

(Signed) James K. Cogswell
Lieut.

From 8 to Merid. Cloudy, with frequent rain squalls. Wind fresh from S. W. At 8.30 set top gallant sails. Disconnected propeller and banked fires. At 10 braced aback and got cast of lead in 49 fathoms, bottom, black sand. Got casts of lead at 11 and 12, bottom, black sand and mud, with five shells. Changed course at 10, to S.E. 1/2 S. Steam pressure 25 lbs. Distiller in operation.

(Signed) Clinton K. Curtis
Lieut.

From Merid. to 4 P.M. Overcast. Rainy. Strong breeze, with heavy squalls, from S.W. At 12.50 spread fires. At 1.55 started ahead. Took in light sails. At 1.25 changed course to S.E. by S. At 3.30 took two separate reefs in topsails and hauled down jib. Got three casts of lead during watch in from 35 to 42 fathoms water. Gray sand. Steaming under four boilers. Steam pressure 60 lbs. Revolutions 49.

(Signed) Samuel C. Lemly
Ensign.

From 4 to 6 P.M. Overcast, squally, rainy. Strong breeze from S.W. Steaming with four boilers. At 5 and 6 stopped engine and got cast of deep sea lead. Bottom at 50 fathoms, white sand, and no bottom at 60 fathoms.

(Signed) Charles B. T. Moore
Ensign.

From 6 to 8 P.M. Overcast and squally. Light breeze from S. and W. Swell from S. At 8 got cast of lead in 60 fathoms, no bottom. At 6 changed course to S.E. Steaming with four boilers. Steam pressure 60 lbs. Revolutions 45.

(Signed) James K. Cogswell
Lieut.

From 8 to Midnight. Cloudy and squally. Passing showers. Wind light during first part, but increasing to fresh breeze from S. and W. last two hours. At 8.30 took in and furled topsails and foresail. Got cast of lead at 10, no bottom at 90 fathoms. At 12, again got cast of lead, no bottom at 120 fathoms. Steam pressure 60 lbs. Revolutions 40.

(Signed) Clinton K. Curtis
Lieut.

(Signed) Asa Walker
Lieut.
Navigator.

Examined and found to be correct

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, At Sea.

Hour.	Knots	Fathoms.	WINDS.			BAROMETER.		TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prog. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.	
			Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. at'd.	Air Dry Bulb.	Air Wet Bulb.						Water at surface.
A.M.																
1	6	2	SE	SSW	3-5	29.85	80	81	79	83	bcpq	Cum Nimb	3	R	Foresail and fore	
2	7	4	"	"	3-5	29.84	80	81	79	83	"	"	2	"	and aft sail, except	
3	6	0	"	"	3-4	29.82	80	81	79	83	bcq	"	1	"	flying jib and gaff topsail	
4	6	0	"	"	3-4	29.82	80	82	79	83	oq	"	0	"	"	
5	7	0	"	"	4	29.82	80	82	80	83	o	"	0	M	All plain sail, except	
6	7	0	"	"	4	29.84	81	83	81	83	o	"	0	"	royals, flying jib,	
7	7	4	SE by E	"	4	29.87	81	83	81	83	bc	"	1	"	and mainsail.	
8	8	0	"	"	3	29.90	81	83	81	83	"	"	2	"	"	
9	8	2	"	"	4	29.92	81	83	82	83	"	"	2	"	"	
10	8	4	se by e 1/4 e	"	4	29.93	82	84	83	83	"	"	4	"	"	
11	10	0	"	"	4	29.90	82	85	83	83	"	"	3	"	"	
Noon	7	0	"	"	4	29.89	82	85	83	83	"	"	4	"	"	

Distance run by Log since preceding Noon 171 knots 4 fathoms.

Latitude by D. R. at Noon 6 ° 18 ' 30 " N.

Longitude by D. R. at Noon 11 ° 19 ' 00 " W.

Latitude by Observations at Noon ⊕ 6 ° 31 ' 16 " N.

Longitude by Chronometer from Forenoon Observations ⊕ 11 ° 12 ' 30 " W.

Current during the time knots 4 fms. per hour, setting to the N. 27° E.

Variation of the Compass by Amplitude ⊕ observed at Sunrise ° " "

Variation of the Compass by Azimuth ⊕ observed at ° " "

Water expended during the preceding 24 hours 250 gallons.

Water during the preceding 24 hours "

Water remaining on hand fit for me at Noon 1220 "

Coal consumed during the preceding 24 hours 7 tons 1120 lbs.

Coal remaining on hand at Noon 168 " 985 "

P.M.

1	5	0	SE	SSW	4		29.87	82	85	82	83	bc	Cum	5	M	Steaming
2	6	2	SE 1/4 S	"	3-4		29.84	83	85	83	83	"	"	7	"	
3	9	0	"	"	3		29.84	83	86	83		"	"	7	"	
4			Steaming into Monrovia	"	2		29.85	83	86	83		"	"	7	S	
5			At anchor	"	2		29.85	83	86	83		"	"	6	"	
6			"	"	2		29.84	83	85	82		"	"	7	"	
7			"	"	2		29.83	82	84	81		"	"	7	"	
8			"	"	2		29.87	82	84	81		"	"	7	"	
9			"	"	2		29.92	81	84	81		"	"	2	"	
10			"	"	2		29.92	81	84	81		"	"	5	"	
11			"	"	2		29.92	81	84	81		"	"	7	"	
Mid.				SW	2		29.90	81	84	81		"	"	8	"	

Longitude by Chronometer from Afternoon Observations ⊕ ° ' "

Longitude by Chronometer Observations * ° ' "

Variation of the Compass by Amplitude observed at Sunset ° ' "

Variation of the Compass by at ° ' "

under the command of Commander Winfield Scott Schley, U. S. Navy.
Friday October 19th, 1877.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Cloudy. Obscured moonlight. Passing showers. Fresh breeze, with squalls, from S.S.W. At 12.15 set jib, and at 12.30 set foresail. At 2 got cast of deep sea lead, no bottom at 60 fathoms. At 4 got cast of deep sea lead, no bottom at 60 fathoms. Steaming with four boilers. Steam pressure 55 lbs. Revolutions 41.

(Signed) Samuel C. Lemly
Ensign.

From 4 to 8 A.M. Overcast, pleasant. Moderate breeze from S. S. W. Steaming with four boilers. At 6 sighted land on port bow. Changed course to S. E. by E. At 7.40 shook reefs out of topsails and set them. Steam pressure 55 lbs. Revolutions 44. Barometer rising.

(Signed) Charles B. T. Moore
Ensign.

From 8 to Merid. Cloudy and pleasant. Moderate breeze from S.S.W. At 9 changed course to S. E. by E. 1/4 E. At 9.15 sounded fire alarm. Time casting loose 1 minute. Secured in 2 m[inutes] 40 sec[onds]. Afterwards inspected at quarters. At 10 set topgallantsails [sic]. At 11 got cast of lead in 35 fathoms water, muddy bottom. Steaming with four boilers. Steam pressure 64 lbs. Revolutions 44.

(Signed) James K. Cogswell
Lieut.

From Merid. to 4 P.M. Clear and pleasant. Moderate breeze from S. and W. At 12.30 changed course to S. E. 1/4 S. At 2 called all hands shorter sail, took in and furled the square sails. At 2.30 called all hands bring ship to anchor. At 2.35 took on and furled all fore and aft sail. At 2.50 came to off Monrovia with port anchor in 7 1/2 fathoms water, veering to 45 fathoms port chain. Draught forward 14 feet 1 in. Amidships 15 feet. Aft 15 feet. Steam pressure 50 lbs. Fires banked in two boilers. Lt. House bore (pc) S. by E. distant 3/4 miles.

(Signed) Clinton K. Curtis
Lieut.

From 4 to 8 P.M. Partially cloudy. Warm. Moderate W[ester]ly breeze. Cumulus clouds. At 5 hauled fires in two boilers and lowered smoke pipe. At 5.25 started distiller. Fires banked in two boilers. Steam pressure 25 lbs. Distilling.

(Signed) Samuel C. Lemly
Ensign.

From 8 to Midnight. Cloudy and pleasant. Light airs from S. and W. Swell from S.W. Banked fires in two boilers. Steam pressure 25 lbs. Distilling.

(Signed) James K. Cogswell
Lieut.

(Signed) Asa Walker
Lieut.
Navigator.

Examined and found to be correct

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Monrovia, Liberia

Hour.	Knots Fathoms.	WINDS.		BAROMETER.		TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prog. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
		Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.			
A.M.													
1			WSW	1		29.86	81	83	81	bc	Cum	2	
2			"	1		29.86	81	83	81	"	"	2	
3			"	1		29.84	80	83	81	"	"	4	
4			"	1		29.83	81	83	81	"	"	4	
5			Variable	1		29.87	79	80	81	"	Cum Nimb	6	
6			S	1		29.87	78	81	81	"	"	2	
7			SW	1		29.88	79	81	81	"	"	3	
8			"	1		29.89	79	82	81	"	"	3	
9			"	1		29.90	80	83	82	"	"	2	
10			"	2		29.91	81	83	82	"	"	3	
11			"	2		29.91	82	84	82	"	"	2	
Noon			SSW	2		29.89	82	84	82	"	"	3	

Distance run by Log since preceding Noon	knots	fathoms.
Latitude by D. R. at Noon	0	"
Longitude by D. R. at Noon	0	"
Latitude by Observations at Noon ⊕	0	"
Longitude by Chronometer from Forenoon Observations ⊕	0	"
Current during the time	knots	fms. per hour, setting to the
Variation of the Compass by Amplitude ⊕ observed at Sunrise	0	"
Variation of the Compass by Azimuth ⊕ observed at 9 A.M.	22 0	00 " 00 " W.
Water expended during the preceding 24 hours		230 gallons.
Water Condensed during the preceding 24 hours		600 "
Water remaining on hand fit for me at Noon		1600 "
Coal consumed during the preceding 24 hours	1 tons	1490 lbs.
Coal remaining on hand at Noon	166 "	1735 "

P.M.													
1			SW	2		29.84	82	84	82	bc	Cum Nimb	6	
2			"	2		29.83	83	86	84	"	"	4	
3			"	2		29.82	84	88	85	"	"	5	
4			"	2		29.80	84	87	85	"	"	5	
5			"	2		29.82	84	86	85	"	"	5	
6			"	2		29.84	83	86	84	"	"	4	
7			"	2		29.86	83	85	84	"	"	4	
8			WSW	2		29.88	83	84	82	"	"	4	
9			SSW	2		29.90	83	84	82	"	Cir Cum	4	
10				2		29.91	83	84	83	"	"	5	
11			SW	2		29.89	83	84	83	"	"	3	
Mid.			WNW	2		29.87	82	83	80	"	"	4	

Longitude by Chronometer from Afternoon Observations ⊕	0	"
Longitude by Chronometer Observations]	0	"
Variation of the Compass by Amplitude observed at Sunset	0	"
Variation of the Compass by at	0	"

under the command of Commander Winfield Scott Schley, U. S. Navy.
Saturday October 20th, 1877.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Cloudy. Pleasant. Light airs from S. and W. Barometer falling slowly. Obscured moonlight.

(Signed) Clinton K. Curtis
Lieut.

From 4 to 8 A.M. Partially cloudy. Pleasant. Calm. Fires banked in two boilers. Steam pressure 25 lbs. Distilling.

(Signed) Samuel C. Lemly
Ensign.

From 8 to Merid. Cloudy, pleasant. Light breeze from S. and W. Aired bedding. Fires banked in two boilers. Steam pressure 25 lbs. Distilling.

(Signed) Charles B. T. Moore
Ensign.

From Merid. to 4 P.M. Cloudy and warm. Light airs from S.W. Fires banked in two boilers. Steam pressure 25 lbs. Distilling.

(Signed) James K. Cogswell
Lieut.

From 4 to 8 P.M. Cloudy and pleasant. Light breeze from S. and W. Fires banked in two boilers. Steam pressure 25 lbs. Distiller in operation.

(Signed) Clinton K. Curtis
Lieut.

From 8 to Midnight. Cloudy, pleasant. Bright moonlight. Light breeze from S. and W. shifting to N. and W. Fires banked in two boilers. Steam pressure 25 lbs. Distilling.

(Signed) Charles B. T. Moore
Ensign.

(Signed) Asa Walker
Lieut.
Navigator.

Examined and found to be correct

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Monrovia, Liberia

Hour.	Knots Fathoms.	WINDS.			BAROMETER.			TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prog. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
		Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. at't'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A.M.															
1			SW	3		29.85	83	84	83		op	Cum Nimb	0		
2			"	3		29.83	83	84	83		o	"	0		
3			"	3		29.83	83	85	80		"	"	0		
4			"	3		29.83	83	83	80		"	"	0		
5			SSW	2		29.83	83	83	80		bc	Cir Cum	2		
6			"	2		29.85	83	83	81		"	"	3		
7			"	2		29.85	82	83	82		"	"	3		
8			"	2		29.89	81	84	82		"	Cum Nimb	3		
9			"	2		29.91	81	84	82		"	"	1		
10			"	2		29.91	82	84	82		"	"	2		
11			"	3		29.89	82	85	82		"	"	3		
Noon			"	3		29.87	82	85	83		"	"	1		

Distance run by Log since preceding Noon	knots	fathoms.
Latitude by D. R. at Noon	o	"
Longitude by D. R. at Noon	o	"
Latitude by Observations at Noon ⊕	o	"
Longitude by Chronometer from Forenoon Observations ⊕	o	"
Current during the time knots fms. per hour, setting to the		
Variation of the Compass by Amplitude ⊕ observed at Sunrise	o	"
Variation of the Compass by Azimuth ⊕ observed at	o	"
Water expended during the preceding 24 hours		230 gallons.
Water during the preceding 24 hours		1000 "
Water remaining on hand fit for me at Noon		2400 "
Coal consumed during the preceding 24 hours	1 tons	1050 lbs.
Coal remaining on hand at Noon	165 "	685 "

P.M.

1	SW	3	29.85	82	85	83	op	Cum Nimb	0
2	"	3	29.82	84	86	83	bc	"	3
3	"	3	29.82	84	86	84	"	"	4
4	"	2	29.83	84	87	84	"	"	5
5	"	2	29.83	85	87	83	"	"	3
6	"	2	29.84	85	86	83	"	"	2
7	"	2	29.86	82	86	83	o	"	0
8	"	2	29.86	82	85	82	bc	"	1
9	"	2	29.83	81	84	81	"	"	3
10	"	2	29.81	81	83	81	"	"	3
11	"	2	29.80	81	83	81	"	"	2
Mid.	"	2	29.80	81	83	81	"	"	3

Longitude by Chronometer from Afternoon Observations ⊕	o	"
Longitude by Chronometer Observations]	o	"
Variation of the Compass by Amplitude observed at Sunset	o	"
Variation of the Compass by at	o	"

under the command of Commander Winfield Scott Schley, U. S. Navy.
Sunday October 21st, 1877.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Overcast and pleasant. Light breeze from S.W. Fires banked in two boilers. Steam pressure 25 lbs. Distilling.

(Signed) James K. Cogswell
Lieut.

From 4 to 8 A.M. Cloudy and pleasant. Light breeze from S. S. W. Passing showers last hour. Barometer rising. Fires banked in two boilers. Distiller in operation. Average pressure 25 lbs.

(Signed) Clinton K. Curtis
Lieut.

From 8 to Merid. Partially clear. Passing showers. Cum. Nimb. clouds. Moderate S. S. W. breeze. At 9.30 Commanding Officer inspected ship and crew at quarters, and immediately afterward read prayers. Fires banked in two boilers. Steam pressure 25 lbs. Distilling. Ship rolling heavily.

(Signed) Samuel C. Lemly
Ensign.

From Merid. to 4 P.M. Cloudy, warm. Passing showers first hour. Light breeze from S. W. Fires banked in two boilers. Steam pressure 25 lbs. Distiller in operation.

(Signed) Charles B. T. Moore
Ensign.

From 4 to 8 P.M. Cloudy and pleasant. Light breeze fro S. W.

(Signed) James K. Cogswell
Lieut.

From 8 to Midnight. Partially clear. Pleasant. Light S. W[ester]ly breeze. Cum. Nimb. clouds. Fires banked in two boilers. Distilling. Steam pressure 25 lbs.

(Signed) Samuel C. Lemly
Ensign.

(Signed) Asa Walker
Lieut.
Navigator.

Examined and found to be correct

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Monrovia, Liberia

Hour.	Knots Fathoms.	WINDS.			BAROMETER.			TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prog. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
		Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. at't'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A.M.															
1			NE	2		29.82	82	80	78		or	Nimb	0		
2			NE by N	2		29.84	82	80	78		"	Cum Nimb	0		
3			NE	2		29.85	82	80	78		op	"	0		
4			"	1		29.86	82	80	78		or	"	0		
5			E	1		29.87	80	80	78		o	"	0		
6			"	1		29.88	78	79	78		"	"	0		
7			"	1		29.91	78	79	78		"	"	0		
8			Calm	0		29.91	78	79	78		or	"	0		
9			"	0		29.93	78	79	78		"	"	0		
10			"	0		29.95	79	81	79		"	"	0		
11			"	0		29.95	79	81	79		op	"	0		
Noon			SSW	1		29.90	80	83	80		"	"	0		

Distance run by Log since preceding Noon	knots	fathoms.
Latitude by D. R. at Noon	0	"
Longitude by D. R. at Noon	0	"
Latitude by Observations at Noon ⊕	0	"
Longitude by Chronometer from Forenoon Observations ⊕	0	"
Current during the time	knots	fms. per hour, setting to the
Variation of the Compass by Amplitude ⊕ observed at Sunrise	0	"
Variation of the Compass by Azimuth ⊕ observed at	0	"
Water expended during the preceding 24 hours		230 gallons.
Water Condensed during the preceding 24 hours		500 "
Water remaining on hand fit for me at Noon		2670 "
Coal consumed during the preceding 24 hours	tons	1130 lbs.
Coal remaining on hand at Noon	164	" 1795 "

P.M.															
1		South	1		29.88	80	83	80		bcp	Cum Nimb	1			
2		"	1		29.86	80	83	81		"	"	1			
3		SW	1		29.86	80	83	81		"	"	2			
4		"	1		29.86	80	83	81		bc	"	3			
5		"	1		29.87	80	83	81		"	"	2			
6		"	1		29.88	80	82	80		"	"	2			
7		Calm	0		29.90	80	82	80		"	"	2			
8		NE	1		29.91	80	82	80		"	"	4			
9		"	1		29.91	80	82	80		"	"	4			
10		"	1		29.91	80	82	80		"	"	4			
11		"	1		29.93	80	81	79		bcp	"	4			
Mid.		"	1		29.93	80	80	78		"	"	4			

Longitude by Chronometer from Afternoon Observations ⊕	0	"	"
Longitude by Chronometer Observations]	0	"	"
Variation of the Compass by Amplitude observed at Sunset	0	"	"
Variation of the Compass by at	0	"	"

under the command of Commander Winfield Scott Schley, U. S. Navy.
Monday October 22nd, 1877.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Overcast, rainy. Light breeze from N. and E. Fires banked in two boilers. Distilling.

(Signed) Charles B. T. Moore
Ensign.

From 4 to 8 A.M. Cloudy and pleasant. Light airs from E. At 5.50 hauled fires in two boilers.

(Signed) James K. Cogswell
Lieut.

From 8 to Merid. Cloudy. Calm and light airs from S. S. W. Frequent passing showers. At Meridian fired a salute of 21 guns, with Liberian Ensign at the Fore. Salute returned by battery on shore, gun for gun.

(Signed) Clinton K. Curtis
Lieut.

From Merid. to 4 P.M. Cloudy. Passing showers. Light airs from S. and W. Sighted steamer standing in from N. and W.

(Signed) Samuel C. Lemly
Ensign.

From 4 to 8 P.M. Cloudy and pleasant. Light variable variable airs and calm. At 5.20 an English steamer, the "Ethiopia", came in and anchored.

(Signed) Charles B. T. Moore
Ensign.

From 8 to Midnight. Cloudy, with light showers latter part. Barometer rising slowly. At 10 English Mail Steamer "Ethiopia" left the harbor.

(Signed) Clinton K. Custer
Lieut.

(Signed) Asa Walker
Lieut.
Navigator.

Examined and found to be correct

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Monrovia, Liberia

Hour.	Knots Fathoms.	WINDS.		BAROMETER.		TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prog. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
		Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. at't'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.			
A.M.													
1			SW	2		29.90	78	80	78	bc	Cum Nimb	1	
2			SW by W	2		29.90	78	80	78	orc	"	0	
3			SW	2		29.89	78	82	79	"	"	0	
4			"	2		29.89	78	82	79	bcpl	"	1	
5			Calm	0		29.91	79	82	80	or	"	0	
6			NE	1		29.93	79	82	80	op	"	0	
7			"	1		29.94	79	82	80	od	"	0	
8			Calm	0		29.96	79	82	80	o	"	0	
9			NW	1		29.97	80	82	81	"	"	0	
10			SW	1		29.97	80	82	81	"	"	0	
11			"	1		29.95	80	82	81	bc	"	1	
Noon			"	1		29.91	81	83	81	"	"	2	

Distance run by Log since preceding Noon	knots	fathoms.
Latitude by D. R. at Noon	°	' "
Longitude by D. R. at Noon	°	' "
Latitude by Observations at Noon ⊕	°	' "
Longitude by Chronometer from Forenoon Observations ⊕	°	' "
Current during the time	knots	fms. per hour, setting to the
Variation of the Compass by Amplitude ⊕ observed at Sunrise	°	" "
Variation of the Compass by Azimuth ⊕ observed at	°	" "
Water expended during the preceding 24 hours		250 gallons.
Water		during the preceding 24 hours "
Water remaining on hand fit for me at Noon		2400 "
Coal consumed during the preceding 24 hours	tons	1650 lbs.
Coal remaining on hand at Noon	164	" 145 "

P.M.													
1			SW	1		29.88	81	83	81	bc	Cum	3	
2			"	1-2		29.85	81	84	82	"	"	3	
3			"	1-2		29.85	81	84	82	"	Cum Nimb	2	
4			"	1-2		29.84	81	84	81	"	"	2	
5			"	1		29.85	81	84	81	"	"	1	
6			"	1		29.87	81	84	81	"	"	5	
7			"	1		29.89	81	83	81	"	"	3	
8			"	1		29.91	81	83	81	bcp	"	4	
9			W	1		29.93	81	83	81	bc	"	4	
10			"	1		29.94	81	83	80	o	"	0	
11			"	1		29.95	81	83	80	"	"	0	
Mid.			"	1		29.95	81	82	80	bc	"	1	

Longitude by Chronometer from Afternoon Observations ⊕	°	' "
Longitude by Chronometer Observations	°	' "
Variation of the Compass by Amplitude	°	' "
Variation of the Compass by	°	' "

under the command of Commander Winfield Scott Schley, U. S. Navy..
Tuesday October 23rd, 1877.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Overcast. Rainy. Light S.W. breeze. Cum. Nimb. clouds.
Lightening to N. and W.

(Signed) Samuel C. Lemly
Ensign.

From 4 to 8 A.M. Overcast. Rainy. Light airs fro N. E. and calm.

(Signed) Charles B. T. Moore
Ensign.

From 8 to Merid. Cloudy and pleasant. Light S. W. airs. At 9 loosed sail. At 9.30 inspected at
quarters. Served out monthly money to crew.

(Signed) James K. Cogswell
Lieut.

From Merid. to 4 P.M. Cloudy. Pleasant. Light breeze from S. W. Barometer falling slowly. At
1.40 shortened and at 1.45 furled sail. Commanding Officer and staff paid official visit to
authorities ashore.

(Signed) Clinton K. Curtis
Lieut.

From 4 to 8 P.M. Partially clear. Pleasant. Light S. W[ester]ly airs. Cum. Nimb. clouds. Passing
showers last hour. At 4.40 German bark "Karl" got underway and stood out to N. and E, dipping
colors to this ship in passing, which salute we returned.

(Signed) Samuel C. Lemly
Ensign.

From 8 to Midnight. Cloudy and pleasant. Light airs from W. Obscured moonlight.

(Signed) James K. Cogswell
Lieut.

Examined and found to be correct

(Signed) Asa Walker
Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Monrovia, Liberia

Hour.	Knots Fathoms.	WINDS.		BAROMETER.		TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prog. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
		Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. at'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.			
A.M.													
1			W	1		29.92	80	81	79	o	Cum Nimb	0	
2			"	1		29.88	80	81	80	or	"	0	
3			"	1		29.87	80	82	80	op	"	0	
4			"	1		29.85	80	82	80	bc	"	0	
5			N	1		29.87	80	82	80	"	"	1	
6			"	1		29.89	79	81	80	"	"	1	
7			NE	1		29.91	79	81	79	"	"	1	
8			"	1		29.93	79	81	79	"	"	1	
9			Calm	0		29.93	80	82	80	"	"	3	
10			NNW	0-1		29.92	80	83	81	"	"	4	
11			"	0-1		29.92	82	83	81	"	"	3	
Noon			NW	1		29.89	82	83	81	op	"	0	

Distance run by Log since preceding Noon	knots	fathoms.
Latitude by D. R. at Noon	o	' "
Longitude by D. R. at Noon	o	' "
Latitude by Observations at Noon ⊕	o	' "
Longitude by Chronometer from Forenoon Observations ⊕	o	' "
Current during the time knots fms. per hour, setting to the		
Variation of the Compass by Amplitude ⊕ observed at Sunrise	o	" "
Variation of the Compass by Azimuth ⊕ observed at	o	" "
Water expended during the preceding 24 hours		250 gallons.
Water during the preceding 24 hours		"
Water remaining on hand fit for me at Noon		2150 "
Coal consumed during the preceding 24 hours	tons	470 lbs.
Coal remaining on hand at Noon	163	" 1915 "

P.M.													
1			W	1		29.89	82	83	81	op	Cum Nimb	0	
2			"	1		29.85	82	83	83	o	"	0	
3			"	1		29.83	82	83	83	"	"	0	
4			"	1		29.82	82	83	82	bc	"	1	
5			"	1		29.83	83	84	82	"	"	1	
6			SW	1		29.84	83	84	82	"	"	1	
7			W by N	1		29.87	82	86	81	"	"	1	
8			NW by N	1		29.88	82	86	81	"	"	1	
9			NE	1		29.90	82	84	81	"	"	1	
10			SW	1		29.93	82	83	81	"	"	3	
11			"	1		29.92	82	83	81	"	"	2	
Mid.			"	1		29.91	82	83	81	bcp	"	2	

Longitude by Chronometer from Afternoon Observations ⊕	o	' "
Longitude by Chronometer Observations]	o	' "
Variation of the Compass by Amplitude observed at Sunset	o	' "
Variation of the Compass by at	o	' "

under the command of Commander Winfield Scott Schley, U. S. Navy.
Wednesday October 24th, 1877.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Cloudy. Rainy second two hours. Obscured moonlight. Barometer falling. Light airs from W.

(Signed) Clinton K. Curtis
Lieut.

From 4 to 8 A.M. Partially clear. Pleasant. Calm, and light variable airs. Cum. Nimb. clouds.

(Signed) Samuel C. Lemly
Ensign.

From 8 to Merid. Cloudy. Pleasant first part. Passing showers last hours. Light variable airs and calm. At 9.15 inspected at quarters. Company A. exercised at target practice with rifles.

(Signed) Charles B. T. Moore
Ensign.

From Merid. to 4 P.M. Cloudy and pleasant. Light airs from W. Exercised Co. B and Marine Guard at target practice. By order of Commanding Officer, the following O.S.2.C. were rated O.S. from Oct. 1st inclusive, Viz. F. W. L. Gray. S. E. Sturitt. James W. Weeklie. F. Wolfinger and Philip Hazard.

(Signed) James K. Cogswell
Lieut.

From 4 to 8 P.M. Weather pleasant. Light breeze from S. and W. Lightening to N. by E. Barometer rising. Went to quarters at 6, and served out clean hammocks.

(Signed) Clinton K. Curtis
Lieut.

From 8 to Midnight. Cloudy. Pleasant. Passing showers last hour. Light airs from S. and W. Obscured moonlight.

(Signed) Charles B. T. Moore
Ensign.

(Signed) Asa Walker
Lieut.
Navigator.

Examined and found to be correct

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Monrovia, Liberia

Hour.	Knots Fathoms.	WINDS.			BAROMETER.		TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prog. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
		Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.				
A.M.														
1			Calm	0		29.81	81	83	80	bc	Cum Nimb	1	S	
2			SSE	2		29.85	81	83	80	o	"	0	"	
3			S	2		29.86	81	83	80	orlt	"	0	"	
4			SW	2		29.86	81	83	80	olr	"	0	"	
5			S and W	1		29.87	81	83	80	oc	"	0	"	
6			"	1		29.88	81	83	80	"	"	0	"	
7			Calm	0		29.89	81	82	80	"	"	0	"	
8			S	1		29.90	81	82	80	bcp	"	0	"	
9			Calm	0		29.93	79	81	79	or	"	0	"	
10			"	0		29.95	78	80	78	"	"	0	"	
11			"	0		29.93	79	80	79	"	"	0	"	
Noon			S	1		29.91	79	81	80	"	"	0	"	

Distance run by Log since preceding Noon	knots	fathoms.
Latitude by D. R. at Noon	o	' "
Longitude by D. R. at Noon	o	' "
Latitude by Observations at Noon ⊕	o	' "
Longitude by Chronometer from Forenoon Observations ⊕	o	' "
Current during the time knots fms. per hour, setting to the		
Variation of the Compass by Amplitude ⊕ observed at Sunrise	o	" "
Variation of the Compass by Azimuth ⊕ observed at	o	" "
Water expended during the preceding 24 hours		250 gallons.
Water during the preceding 24 hours		"
Water remaining on hand fit for me at Noon		1860 "
Coal consumed during the preceding 24 hours	tons	250 lbs.
Coal remaining on hand at Noon	163	" 1665 "

P.M.														
1		WSW	1			29.90	80	82	80	o	Cum Nimb	0	S	
2		"	1			29.88	80	83	80	"	"	0	"	
3		SW	1			29.86	80	82	80	or	"	0	"	
4		ENE	1			29.86	80	82	80	"	"	0	"	
5		Calm	0			29.86	80	82	80	o	"	0	"	
6		ESE	2			29.86	80	82	79	"	"	0	"	
7		"	1			29.87	80	81	78	"	"	0	"	
8		"	2			29.87	80	80	78	"	"	0	"	
9		E by S	2			29.91	80	80	78	bc	"	3	"	
10		E	2			29.92	78	79	78	"	"	6	"	
11		"	2			29.91	78	79	78	"	"	6	"	
Mid.		"	2			29.90	79	79	78	"	"	5	"	

Longitude by Chronometer from Afternoon Observations ⊕	o	' "
Longitude by Chronometer Observations]	o	' "
Variation of the Compass by Amplitude observed at Sunset	o	' "
Variation of the Compass by at	o	' "

under the command of Commander Winfield Scott Schley, U. S. Navy.
Thursday October 25th, 1877.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Overcast. Rainy. Light airs from S. and W. Barometer rising slowly.

(Signed) James K. Cogswell
Lieut.

From 4 to 8 A.M. Overcast and cloudy. Calm and light airs from S, and S. and W. Heavy showers of rain last hour. Barometer rising slowly. Scrubbed hammocks.

(Signed) Clinton K. Custer
Lieut.

From 8 to Merid. Overcast. Rainy. Calm. Cumulus Nimbus clouds.

(Signed) Samuel C. Lemly
Ensign.

From Merid. to 4 P.M. Overcast. Raining last two hours. Light variable airs.

(Signed) Charles B. T. Moore
Ensign.

From 4 to 8 P.M. Overcast. Rainy. Light airs from S. and E.

(Signed) James K. Cogswell
Lieut.

From 8 to Midnight. Partially cloudy. Cool. Pleasant. Light E[aster]ly breeze. Cum. Nimb. clouds. Bright moonlight.

(Signed) Samuel C. Lemly
Ensign.

(Signed) Asa Walker,
Lieut
Navigator.

Examined and found to be correct

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Monrovia, Liberia

Hour.	Knots Fathoms.	WINDS.		BAROMETER.			TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
		Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.				
A.M.														
1			NE	1		29.88	78	79	78	bc	Cir Cum Cum Nimb	5		
2			"	1		29.86	78	79	78	"	"	3		
3			"	1		29.85	79	78	77	or	"	0		
4			"	1		29.84	79	78	77	"	"	0		
5			Calm	0		29.85	79	78	77	"	"	0		
6			SE	1		29.87	79	78	77	o	"	0		
7			Calm	0		29.89	79	78	77	"	"	0		
8			"	0		29.90	79	80	78	bc	"	1		
9			"	0		29.91	79	80	79	"	"	1		
10			"	0		29.93	79	81	80	"	"	1		
11			S	1		29.92	79	82	80	"	"	1		
Noon			"	1		29.90	79	82	80	"	"	1		

Distance run by Log since preceding Noon	knots	fathoms.
Latitude by D. R. at Noon	o	' "
Longitude by D. R. at Noon	o	' "
Latitude by Observations at Noon ⊕	o	' "
Longitude by Chronometer from Forenoon Observations ⊕	o	' "
Current during the time knots fms. per hour, setting to the	o	" "
Variation of the Compass by Amplitude ⊕ observed at Sunrise	o	" "
Variation of the Compass by Azimuth ⊕ observed at	o	" "
Water expended during the preceding 24 hours		250 gallons.
Water during the preceding 24 hours		"
Water remaining on hand fit for me at Noon		1600 "
Coal consumed during the preceding 24 hours	tons	250 lbs.
Coal remaining on hand at Noon	163	" 1415 "

P.M.														
1		SSW	1			29.88	79	82	80	bc	Cum Nimb	2		
2		"	1			29.85	80	82	80	"	"	2		
3		"	2			29.84	80	82	81	"	"	3		
4		"	2			29.83	80	82	81	"	"	3		
5		"	2			29.82	80	82	81	"	"	3		
6		SW	1			29.85	80	82	81	"	"	4		
7		"	1			29.92	80	81	80	"	"	4		
8		"	1			29.89	80	81	80	bcl	"	4		
9		SE	1			29.90	80	81	80	"	"	5		
10		"	1			29.92	80	81	80	bc	"	5		
11		"	1			29.92	80	81	80	"	"	6		
Mid.		"	1			29.92	80	81	80	bcp	"	5		

Longitude by Chronometer from Afternoon Observations ⊕	o	' "
Longitude by Chronometer Observations]	o	' "
Variation of the Compass by Amplitude observed at Sunset	o	' "
Variation of the Compass by at	o	' "

under the command of Commander Winfield Scott Schley, U. S. Navy.
Friday October 26th, 1877.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Cloudy first two hours. Overcast and rainy last two. At 12.30
British Steamer "Congo" came in and anchored. Sent mail aboard. At 1.30 left the harbor.

(Signed) Charles B. T. Moore
Ensign.

From 4 to 8 A.M. Overcast and warm. Rainy first hour. Calm. Barometer rising slowly.

(Signed) James K. Cogswell
Lieut.

From 8 to Merid. Cloudy. Pleasant. Calm and light airs from S. At 8 loosed sail to a bowline. At
9.15 exercised at fire quarters. Exercised Howitzer crew at target practice with pistols.

(Signed) Clinton K. Custer
Lieut.

From Merid. to 4 P.M. Clear. Warm. Cum. Nimb. clouds. Light S. S. W. breeze. At 3.30
shortened and furled sail. By order of Comdg Officer, W. J. Norwood (O.S.) was confined to the
berth deck, for carrying a sheathe knife.

(Signed) Samuel C. Lemly
Ensign.

From 4 to 8 P.M. Clear and pleasant. Light airs from S. and W. At 4.45 mustered at quarters
and turned in clean hammocks.

(Signed) Charles B. T. Moore
Ensign.

From 8 to Midnight. Cloudy. Pleasant. Passing showers last two hours. Barometer steady.

(Signed) Clinton K. Curtis
Lieut.

(Signed) Asa Walker,
Lieut
Navigator.

Examined and found to be correct

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Monrovia, Liberia

Hour.	Knots Fathoms.	WINDS.		BAROMETER.			TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
		Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. air'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.				
A.M														
1			SE	1		29.89	80	81	81	bc	Cum Nimb	5	S	
2			"	1		29.92	80	81	81	"	"	5	"	
3			Calm	0		29.89	80	81	81	"	"	4	"	
4			"	0		29.86	80	81	81	"	"	4	"	
5			"	0		29.85	80	79	78	"	Cum	3	"	
6			"	0		29.84	76	79	78	"	"	3	"	
7			"	0		29.86	76	79	79	"	"	5	"	
8			"	0		29.87	77	80	80	"	"	6	"	
9			"	0		29.89	78	82	81	"	Cir Cum	2	"	
10			NNW	1		29.91	80	82	82	"	"	1	"	
11			WSW	1		29.90	80	83	82	"	Cum	6	"	
Noon			SW	1		29.90	80	83	82	"	"	1	"	

Distance run by Log since preceding Noon	knots	fathoms.
Latitude by D. R. at Noon	°	' "
Longitude by D. R. at Noon	°	' "
Latitude by Observations at Noon ⊕	°	' "
Longitude by Chronometer from Forenoon Observations ⊕	°	' "
Current during the time knots fms. per hour, setting to the	°	" "
Variation of the Compass by Amplitude ⊕ observed at Sunrise	°	" "
Variation of the Compass by Azimuth ⊕ observed at	°	" "
Water expended during the preceding 24 hours		250 gallons.
Water during the preceding 24 hours		"
Water remaining on hand fit for me at Noon		1300 "
Coal consumed during the preceding 24 hours	tons	250 lbs.
Coal remaining on hand at Noon	163 "	1165 "

P.M.														
1		SW	1			29.85	81	83	82	bcp	Cum	5	S	
2		"	1-2			29.80	81	83	82	bc	"	5	"	
3		"	1			29.80	81	83	82	"	"	4	"	
4		"	1			29.80	81	84	82	bct	Cum Nimb	3	"	
5		N	1			29.85	81	84	82	bctf	"	2	"	
6		"	2			29.85	81	84	82	"	"	1	"	
7		NW	2			29.85	80	83	81	ortf	"	0	"	
8		"	2			29.86	80	83	81	"	"	0	"	
9		"	1			29.87	80	83	82	"	"	0	"	
10		NE	1			29.89	80	83	82	bc	"	6	"	
11		"	1			29.91	80	82	80	bcl	"	3	"	
Mid.		"	1			29.91	80	82	80	bclt	"	3	"	

Longitude by Chronometer from Afternoon Observations ⊕	°	' "
Longitude by Chronometer Observations]	°	' "
Variation of the Compass by Amplitude observed at Sunset	°	' "
Variation of the Compass by at	°	' "

under the command of Commander Winfield Scott Schley, U. S. Navy.
Saturday October 27th, 1877.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Partially clear. Pleasant. Calm. Obscured moonlight. Cum. Nimb. clouds.

(Signed) Samuel C. Lemly
Ensign.

From 4 to 8 A.M. Warm and partially cloudy. Midshipman W. H. Allen was placed under suspension for sleeping on his watch, by order of Commanding Officer.

(Signed) Charles B. T. Moore
Ensign.

From 8 to Merid. Cloudy and warm. Light airs from S. and W. Swell from S. W.

(Signed) James K. Cogswell
Lieut.

From Merid. to 4 P.M. Partially cloudy but pleasant, passing showers first hour. Barometer falling. Indications of thunder storm latter part of watch.

(Signed) Clinton K. Curtis
Lieut.

From 4 to 8 P.M. Partially clear. Warm. Light W[ester]ly airs. Ship rolling very heavily. Raining latter part of watch, with thunder and lightening to N.

(Signed) Samuel C. Lemly
Ensign.

From 8 to Midnight. Cloudy and pleasant. Light airs from N. E. Ship rolling moderately.

(Signed) James K. Cogswell
Lieut.

(Signed) Asa Walker,
Lieut
Navigator.

Examined and found to be correct

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns,
Monrovia, Liberia

Hour.	Knots Fathoms.	WINDS.			BAROMETER.		TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
		Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. air'd.	Air Dry Bulb.	Air Wet Bulb.					
A.M														
1			SSE	1		29.85	79	82	80	opr	Cum Nimb	0	S	
2			"	1		29.85	79	82	80	"	"	0	"	
3			E	1		29.85	79	82	80	opl	"	0	"	
4			"	1		28.85	79	82	80	ol	"	0	"	
5			E	1		29.86	78	82	80	olt	"	0	"	
6			"	1		28.87	78	80	80	orlt	"	0	"	
7			ENE	1		29.89	78	80	80	"	"	0	"	
8			NE	1		28.91	78	80	80	bc	"	1	"	
9			E	1		29.87	79	80	80	o	"	0	"	
10			Calm	0		28.87	79	82	80	"	"	0	"	
11			N	1		29.87	80	84	81	bc	Cir Cum	4	"	
Noon			"	1		28.86	80	85	81	"	"	4	"	

Distance run by Log since preceding Noon	knots		fathoms.
Latitude by D. R. at Noon	°	'	"
Longitude by D. R. at Noon	°	'	"
Latitude by Observations at Noon ⊕	°	'	"
Longitude by Chronometer from Forenoon Observations ⊕	°	'	"
Current during the time	knots	fms. per hour, setting to the	
Variation of the Compass by Amplitude ⊕ observed at Sunrise	°	"	"
Variation of the Compass by Azimuth ⊕ observed at	°	"	"
Water expended during the preceding 24 hours			250 gallons.
Water		during the preceding 24 hours	"
Water remaining on hand fit for me at Noon			1000 "
Coal consumed during the preceding 24 hours	tons	2170	lbs.
Coal remaining on hand at Noon	162	"	1235 "

P.M.											
1	NW	1	29.83	83	86	84	bc	Cir Cum	2	S	
2	SW	1	29.80	83	86	84	"	"	1	"	
3	SSW	1	29.78	83	85	83	"	"	1	"	
4	SW	1	29.78	83	85	83	"	"	2	"	
5	E	1	29.80	83	85	82	"	Cum Nimb	2	"	
6	"	1-2	29.83	82	84	82	"	"	2	"	
7	"	2	29.85	81	83	80	"	"	1	"	
8	"	1	29.88	80	82	79	or	"	0	"	
9	SE	1	29.86	79	81	79	bc	"	2	"	
10	"	1	29.85	79	81	79	"	"	3	"	
11	NE	2	29.84	78	81	79	"	"	4	"	
Mid.	"	2	29.84	78	81	78	"	"	5	"	

Longitude by Chronometer from Afternoon Observations \oplus		0	4	"
Longitude by Chronometer Observations]	0	4	"
Variation of the Compass by Amplitude	observed at Sunset	0	4	"
Variation of the Compass by	at	0	4	"

under the command of Commander Winfield Scott Schley, U. S. Navy.
Sunday October 28th, 1877.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Cloudy. Pleasant. Light breeze from S. and E. Barometer steady. Frequent light showers during watch.

(Signed) Clinton K. Curtis.

From 4 to 8 A.M. Overcast. Passing showers. Thunder and lightening to seaward. Light E[aster]ly airs.

(Signed) Samuel C. Lemly

From 8 to Merid. Overcast first two hours, clearing last half of watch. Warm. Calm and light airs from N. and E. Commanding Officer inspected crew at quarters and ship, at 9.30.

(Signed) Charles B. T. Moore
Ensign.

From Merid. to 4 P.M. Cloudy and warm. Light variable airs.

(Signed) James K. Cogswell
Lieut.

From 4 to 8 P.M. Overcast and threatening. Rainy during last hours. Light airs increasing to light breeze from E. Thunder, with vivid lightening during watch. Barometer rising. At 6.40 started fires in two forward port boilers.

(Signed) Clinton K. Curtis
Lieut.

From 8 to Midnight. Drizzling rain first half hour. Vivid lightening and heavy thunder to W. Clearing last part. Commenced distilling.

(Signed) Charles B. T. Moore
Ensign.

(Signed) Asa Walker,
Lieut
Navigator.

Examined and found to be correct

under the command of Commander Winfield Scott Schley, U. S. Navy.
Monday October 29th, 1877.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Cloudy and pleasant. Light airs from S. and E. Light sprinkling of rain last hour of watch. Fires banked in two boilers. Steam pressure 25 lbs. Distilling.

(Signed) James K. Cogswell
Lieut.

From 4 to 8 A.M. Cloudy. Pleasant. Cleaning during last hour. Light airs from E. Barometer rising. At 8 loosed sail to a bowline. Fires banked in two boilers. Steam pressure 25 lbs. Distiller in operation.

(Signed) Clinton K. Curtis
Lieut.

From 8 to Merid. Partially cloudy, with passing showers last hour. At 9.15 exercised at General Quarters. Times as follows. Cast loose in 5 m[inutes] 30 s[econds]. Secured in 6 m 50 s. Fires banked in two boilers. Steam pressure 25 lbs. Distilling. At 11, W. G. Norwood (O.S.) was released by order of Commanding Officer.

(Signed) Samuel C. Lemly
Ensign.

From Merid. to 4 P.M. Partially overcast. Warm. Light airs and moderate breeze from S. W. At 1, furled sail.

(Signed) Charles B. T. Moore
Ensign.

From 4 to 8 P.M. Overcast and pleasant. Light airs from S. and W. Lightening to W. Fires banked in two boilers. Steam pressure 25 lbs. Distilling.

(Signed) James K. Cogswell
Lieut.

From 8 to Midnight. Cloudy. Heavy squalls passing to seaward. Thunder and lightening. Fires banked in two boilers. Steam pressure 25 lbs. Distilling.

(Signed) Samuel C. Lemly
Ensign.

(Signed) Asa Walker,
Lieut
Navigator.

Examined and found to be correct

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Monrovia, Liberia

Hour.	Knots Fathoms.	WINDS.		BAROMETER.		TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
		Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. at't'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.			
A.M													
1			NE	1		29.86	80	82	79	bc	Cum Nimb	3	S
2			"	1		29.83	79	81	79	"	"	4	"
3			"	2		29.80	79	81	79	"	"	5	"
4			"	2		29.79	79	81	79	"	"	5	"
5			NNE	2		29.81	79	79	78	o	"	0	"
6			NE	2		29.84	78	79	78	o	"	0	"
7			"	1		29.86	78	79	78	bc	"	3	"
8			ENE	1		29.86	78	81	79	"	"	5	"
9			"	1		29.86	78	81	79	"	"	5	"
10			"	1		29.86	80	81	79	"	"	5	"
11			"	1		29.84	80	83	80	bcp	"	3	"
Noon			N	1-2		29.84	81	83	82	"	"	2	"

Distance run by Log since preceding Noon knots fathoms.

Latitude by D. R. at Noon ° ' "

Longitude by D. R. at Noon ° ' "

Latitude by Observations at Noon ⊕ ° ' "

Longitude by Chronometer from Forenoon Observations ⊕ ° ' "

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊕ observed at Sunrise ° " "

Variation of the Compass by Azimuth ⊕ observed at ° " "

Water expended during the preceding 24 hours 250 gallons.

Water Condensed during the preceding 24 hours 800 "

Water remaining on hand fit for me at Noon 1900 "

Coal consumed during the preceding 24 hours 1 tons 2210 lbs.

Coal remaining on hand at Noon 158 " 355 "

P.M.													
1			W	1		29.83	81	83	82	bc	Cum Nimb	2	S
2			SW	2		29.81	82	84	82	"	"	3	"
3			"	2		29.79	82	85	82	"	"	4	"
4			"	2		29.78	82	85	82	"	"	4	"
5			"	2		29.79	82	85	82	"	"	4	"
6			"	2		29.79	82	84	82	"	"	5	"
7			"	1		29.80	82	84	82	"	"	4	"
8			"	1		29.80	82	84	82	"	"	4	"
9			NNE	1		29.83	81	84	81	bcl	"	7	"
10			"	1		29.86	81	83	81	"	"	5	"
11			"	1		29.86	81	82	80	"	"	5	"
Mid.			"	1		29.84	80	82	80	"	"	3	"

Longitude by Chronometer from Afternoon Observations ⊕ ° ' "

Longitude by Chronometer Observations ° ' "

Variation of the Compass by Amplitude ° ' "

Variation of the Compass by at ° ' "

under the command of Commander Winfield Scott Schley, U. S. Navy.
Tuesday October 30th, 1877.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Partially overcast. Pleasant. Light airs from N. E.

(Signed) Charles B. T. Moore
Ensign.

From 4 to 8 A.M. Cloudy and warm. Light airs from N. and E. At 6 English Mail Steamer "Edgar" came in and anchored. At 6.30 English Steamer "Biafra" came in and anchored. Fires banked in two boilers. Distilling.

(Signed) James K. Cogswell
Lieut.

From 8 to Merid. Cloudy, warm. Passing showers last two hours. Light breeze from N. and E. At 9.15 inspected at quarters. Exercised at small arms and Howitzer drill. At 11, English Steamer "Edgar" left the harbor. Exchanged colors. By order of Commanding Officer, Private Stahler was placed in solitary confinement, on bread and water.

(Signed) Clinton K. Curtis
Lieut.

From Merid. to 4 P.M. Partially clear. Light S. W. airs. Cum. Nimb. clouds. Aired bedding. Inspected clothing. Fires banked in two boilers. Steam pressure 25 lbs. Distilling.

(Signed) Samuel C. Lemly
Ensign.

From 4 to 8 P.M. Partially cloudy. Warm. Light airs from S. W. Royal Mail Steamer "Biafra" steamed out bound North.

(Signed) Charles B. T. Moore
Ensign.

From 8 to Midnight. Cloudy. Pleasant. Light airs from N. and E. Barometer falling slowly. Lightening around horizon.

(Signed) Clinton K. Curtis
Lieut.

(Signed) Asa Walker,
Lieut
Navigator.

Examined and found to be correct

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Monrovia, Liberia

Hour.	Knots Fathoms.	WINDS.			BAROMETER.		TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
		Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. air'd.	Air Dry Bulb.	Air Wet Bulb.					
A.M														
1			E by N	2		29.83	79	79	77		bc	Cum Nimb	5	
2			E	3-6		29.82	78	78	77		orq	"	0	
3			"	3		29.81	78	78	76		"	"	0	
4			"	3		29.80	78	77	75		bc	"	2	
5			"	1		29.81	78	78	76		"	"	2	
6			"	2		29.83	78	79	76		"	"	2	
7			"	2		29.85	79	80	78		"	"	4	
8			"	2		29.85	79	80	78		o	"	4	
9			ENE	2		29.88	80	81	78		bc	"	0	
10			Calm	0		29.90	80	82	80		"	"	1	
11			NW	2		29.87	83	84	82		"	"	1	
Noon			"	1		29.85	82	84	83		"	"	3	

Distance run by Log since preceding Noon

knots fathoms.

Latitude by D. R. at Noon

° ' "

Longitude by D. R. at Noon

° ' "

Latitude by Observations at Noon ⊕

° ' "

Longitude by Chronometer from Forenoon Observations ⊕

° ' "

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊕ observed at Sunrise

° " "

Variation of the Compass by Azimuth ⊕ observed at

° " "

Water expended during the preceding 24 hours

260 gallons.

Water Condensed during the preceding 24 hours

600 "

Water remaining on hand fit for me at Noon

2200 "

Coal consumed during the preceding 24 hours

1 tons 1760 lbs.

Coal remaining on hand at Noon

156 " 835 "

P.M.

1		NW	1	29.83	82	84	83		bc	Cir Cum	4		
2		S	2	29.81	82	84	82		"	"	4		
3		SSW	1	29.80	82	84	82		"	"	5		
4		"	1	29.80	82	84	82		"	"	7		
5		"	1	29.81	82	84	82		"	"	4		
6		"	2	29.83	82	84	82		"	"	3		
7		S by W	2	29.85	82	84	82		op	"	0		
8		S	2	29.87	82	84	82		bc	"	3		
9		SW	2	29.91	82	85	82		"	"	3		
10		"	2	29.91	82	85	82		"	"	1		
11		"	2	29.90	81	83	82		bcp	"	1		
Mid.		"	2	29.90	80	83	81		bc	"	4		

Longitude by Chronometer from Afternoon Observations ⊕

° ' "

Longitude by Chronometer Observations

° ' "

Variation of the Compass by Amplitude observed at Sunset

° ' "

Variation of the Compass by at

° ' "

under the command of Commander Winfield Scott Schley, U. S. Navy.
Wednesday October 31st, 1877.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Partially clear. Rain squalls during watch. Cum. Nimb. clouds. Light E[aster]ly breeze. Fires banked in two boilers. Steam pressure 25 lbs. Distilling. Irvin Winbush (W.O.S.) stood four hours extra watch.

(Signed) Samuel C. Lemly
Ensign.

From 4 to 8 A.M. Partially overcast. Cool. Light airs from E.

(Signed) Charles B. T. Moore
Ensign.

From 8 to Merid. Cloudy and pleasant. Light variable airs. Scraped spars. Midshipman W. H. Allen was restored to duty by order of Commanding Officer. American Minister paid an official visit to the ship. Banked fires in two boilers. Steam pressure 25 lbs. Distilling.

(Signed) James K. Cogswell
Lieut.

From Merid. to 4 P.M. Clear and pleasant. Light airs from N. and W. shifting to S. and W. At 2.45 furling sail. Barometer falling. Banked fires in two boilers. Distiller in operation.

(Signed) Clinton K. Curtis
Lieut.

From 4 to 8 P.M. Partially clear. Passing rain squalls. Cum. Nimb. clouds. A small Liberian schooner came in and anchored. By order of Comdg Officer, Alfred Stahler (P.M.) was released from confinement and restored to duty. Fires banked in two boilers. Steam pressure 25 lbs. Distilling. Hoisted smoke pipe and made preparations for sea.

(Signed) Samuel C. Lemly
Ensign.

From 8 to Midnight. Cloudy and pleasant. Passing showers of rain. Light breeze from S. W. At 10 P.M. American Minister I. Milton Turner, and his secretary E. W. Roberts came on board to take passage for Great Bassa. Fires banked in two boilers. Distilling.

(Signed) James K. Cogswell
Lieut.

(Signed) Asa Walker,
Lieut
Navigator.

Examined and found to be correct

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Monrovia and Great Bassa, Liberia

Hour.	Knots	Fathoms.	Courses steered.	WINDS.		Leeway.	BAROMETER.		TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
				Direction.	Force.		Height in inches.	Ther. air'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A.M																
1				SE	1		29.87	79	80	78		bc	Cum Nimb	7		
2				"	1		29.85	79	80	78		"	"	7		
3				ESE	1		29.83	79	80	78		"	"	7		
4				"	1		29.83	79	80	78		"	"	7		
5				SE	1		29.84	79	81	79		"	Cir Cum	8	L	
6				"	1		29.85	79	81	79		"	"	8	"	
7	6	0	SE 1/2 S	ESE	2		29.87	80	82	80		"	"	8	"	
8	7	2	"	"	2		29.88	80	82	80		"	"	8	"	
9	7	4	"	SE by E	2		29.89	81	84	82		"	"	7	"	
10	8	0	"	SE	1		29.88	81	85	83		"	Cum	7	"	
11	8	4	"	Calm	0		29.88	83	85	83		"	"	7	"	
Noon	5	4	"	SSW	1		29.87	84	86	83		"	"	7	"	

Distance run by Log since preceding Noon

knots

fathoms.

Latitude by D. R. at Noon

°

'

"

Longitude by D. R. at Noon

°

'

"

Latitude by Observations at Noon ⊕

°

'

"

Longitude by Chronometer from Forenoon Observations ⊕

°

'

"

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊕ observed at Sunrise

°

"

"

Variation of the Compass by Azimuth ⊕ observed at

°

"

"

Water expended during the preceding 24 hours

250 gallons.

Water Condensed during the preceding 24 hours

600 "

Water remaining on hand fit for me at Noon

2600 "

Coal consumed during the preceding 24 hours

5

tons

870 lbs.

Coal remaining on hand at Noon

150

"

2205 "

P.M.

1	Steaming in to Great Bassa. At Anchor.	SSE	1	29.85	83	87	85	bc	Cum	8	s
2		"	1	29.81	83	87	85	"	"	8	"
3		"	1	29.85	83	86	84	"	Cir Cum Nimb	5	"
4		"	1	29.80	83	86	84	"	"	2	"
5		SW	1	29.80	83	86	84	"	"	5	"
6		SSW	1	29.81	83	86	83	"	"	5	"
7		"	1	29.83	83	85	82	bcp	"	3	"
8		"	1	29.85	83	85	82	bc	"	3	"
9		"	2	29.86	83	85	82	"	"	5	"
10		ESE	1	29.88	83	85	82	"	"	4	"
11		"	1	29.88	83	85	82	bcp	"	6	"
Mid.		"	1	29.89	83	85	82	"	"	3	"

Longitude by Chronometer from Afternoon Observations ⊕

°

'

"

Longitude by Chronometer Observations

]

°

'

"

Variation of the Compass by Amplitude observed at Sunset

°

'

"

Variation of the Compass by at

°

'

"

under the command of Commander Winfield Scott Schley, U. S. Navy.
Thursday November 1st, 1877.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Partially cloudy and damp. Light airs from S. and E. Started fires in boiler Nos. 5 and 7 at 2 A.M. Barometer falling.

(Signed) Clinton K. Curtis
Lieut.

From 4 to 8 A.M. Clear. Pleasant. Light S. E. breeze. Cir. Cum. clouds. At 5.30 got underway under four boilers and stood down the coast. Draught forward 14 feet. Amidships 15 ft. Aft 16 feet. At 6.15 took departure, Cape Mesurado bore (pc) N. N. E. distant three miles. Set course S. E. 1/2 S. Steaming four boilers. Steam pressure 60 lbs. Revolutions 40. At 7.50 sighted a schooner off port bow standing to S.

(Signed) Samuel C. Lemly
Ensign.

From 8 to Merid. Clear. Warm. Calm and light variable airs. Engaged in breaking out hold. Steaming with four boilers. Steam pressure 60 lbs. Revolutions 46. At 8.35 sighted a sail off starboard bow. By order of Commanding Officer, Peter Frank (Q.G.) was disrated to Seaman at his own request, from this date.

(Signed) Charles B. T. Moore
Ensign.

From Merid. to 4 P.M. Cloudy and warm. Light airs from S. and E. At 1.30 came to anchor off Great Bassa, in 7 1/4 fathoms water, veering to 30 fathoms port chain. Bassa bore (pc) N. E. Draught forward 14 feet. Amidships 15 feet. Aft 16 feet. At 2 P.M. American Minister I. Milton Turner and his secretary E. W. Roberts left the ship. Banked fires in four boilers. Steam pressure 40 lbs. Distilling.

(Signed) James K. Cogswell
Lieut.

From 4 to 8 P.M. Cloudy, pleasant. Light breeze from S. and W. Barometer rising. Finished stowing hold. Fires banked in four boilers. Steam pressure 20 lbs. Distiller in operation.

(Signed) Clinton K. Curtis
Lieut.

From 8 to Midnight. Cloudy. Light passing showers latter part. Light airs from S. and E. Fires banked in four boilers. Distilling.

(Signed) Charles B. T. Moore
Ensign.

(Signed) Asa Walker,
Lieut
Navigator.

Examined and found to be correct

Hour.	Knots Fathoms.	Courses steered.	WINDS.		BAROMETER.		TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
			Direction.	Force.	Leeway.	Height inches.	Ther. air'd.	Air Dry Bulb.	Air Wet Bulb.					
A.M														
1			SE	1		29.85	81	82	80	bcl	Cum Nimb	3	S	
2			"	1		29.85	81	82	80	"	"	3	"	
3			"	1		29.84	81	82	80	"	"	3	"	
4			"	1		29.83	81	82	80	bc	"	3	"	
5			"	1		29.83	79	81	80	"	"	4	"	
6			"	1		29.83	79	81	79	"	"	4	"	
7			ENE	1		29.85	79	82	80	"	"	4	"	
8			"	1		29.86	80	83	82	"	"	4	"	
9			SE	1		29.86	82	84	82	"	"	4	L	
10			SSE	1		29.86	83	85	84	"	"	5	"	
11		Underway	S	1		29.87	83	86	84	"	"	5	"	
Noon	7 4	SSE 1/2 E	"	2		29.85	83	87	84	bcp	"	5	"	

knots fathoms.

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000 1001 1002 1003 1004 1005 1006 1007 1008 1009 1010 1011 1012 1013 1014 1015 1016 1017 1018 1019 1020 1021 1022 1023 1024 1025 1026 1027 1028 1029 1030 1031 1032 1033 1034 1035 1036 1037 1038 1039 1040

O **I** **EE**

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○ “ ”

○ “ ”

250 gallons.

400 66

2650

5 tons 1110 lbs.

145 “ 1095 “

1	8	0	SSE 1/2 E	S	2	29.83	83	87	84	bc	Cum	7	L
2	7	6	"	"	2	29.79	83	87	84	"	"	7	"
3	8	0	"	S by W	2	29.76	84	86	83	"	Cum Nimb	7	L.T.
4	At Anchor			SW by W	2	29.78	84	86	84	"	"	5	L
5				SW	2	29.77	83	86	83	"	"	1	"
6				"	2	29.81	82	85	83	bcl	"	2	"
7				"	2	29.82	82	84	82	bcl	"	8	"
8				"	4	29.83	81	82	80	"	"	6	S
9				"	3	29.85	81	83	82	"	"	3	"
10				"	3	29.87	81	84	80	"	"	4	"
11				"	3	29.87	81	84	82	"	"	0	"
Mid.				"	3	29.87	81	83	83	"	"	4	"

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0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000 1001 1002 1003 1004 1005 1006 1007 1008 1009 1010 1011 1012 1013 1014 1015 1016 1017 1018 1019 1020 1021 1022 1023 1024 1025 1026 1027 1028 1029 1030 1031 1032 1033 1034 1035 1036 1037 1038 1039 1040

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99

under the command of Commander Winfield Scott Schley, U. S. Navy.
Friday November 2nd, 1877.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Cloudy and pleasant. Light air from S. and E. Moon rose at 3.15.
Fires banked in four boilers. Steam pressure 20 lbs. Distilling.

(Signed) James R. Cogswell
Lieut.

From 4 to 8 A.M. Clear, warm and pleasant. Light breeze from S. E. shifting to E. N. E.
Barometer rising. Fires banked in four boilers. Steam pressure 40 lbs. Distilling.

(Signed) Clinton K. Curtis
Lieut.

From 8 to Merid. Partially cloudy. Warm. Light S[outher]ly breeze. American Consul visited the ship. At 9.20 hove in to 15 fathoms. At 10.25 got underway and stood down the coast under direction of Navigator. At 10.55 stopped engine to set up on eccentric. At 10.58 started ahead. Draught forward 14 feet. Amidships 15 feet. Aft 16 feet. At 11, took departure, Great Bassa Point bore (pc) N. E. by N. distant three miles. Set course, S. S. E. 1/2 E. Steaming with four boilers. Steam pressure 60 lbs. Revolutions 40.

(Signed) Samuel C. Lemly
Ensign.

From Merid. to 4 P.M. Cloudy. Warm. Light breeze from S. and W. Steaming with four boilers. At 12.10 set main trysail. At 12.25 set jib and fore topmast staysail. At 3.30 took in all fore and aft sail. At 3.55 came to off Cestos River in 7 1/2 fathoms water, veering to 30 fathoms port chain. Draught forward 13 feet 11 in. Amidships 14 feet 11 in. Aft 16 feet. Steam pressure 60 lbs. Revolutions 45. Manna Rocks bore N. by W. 1/4 W. St. George Point E. S. E.

(Signed) Charles B. T. Moore
Ensign.

From 4 to 8 P.M. Cloudy and warm. Light breeze from S. and W. Lightening in horizon to E.
Banked fires in four boilers. Steam pressure 32 lbs.

(Signed) James K. Cogswell
Lieut.

From 8 to Midnight. Cloudy. Heavy rain squall in middle of watch. Cum. Nimb. clouds. Fires banked in four boilers. Steam pressure 30 lbs.

(Signed) Samuel C. Lemly
Ensign.

(Signed) Asa Walker,
Lieut
Navigator.

Examined and found to be correct

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Off Cestos River and Sinou Village, Liberia

Hour.	Knots	Fathoms.	WINDS.			BAROMETER.		TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.	
			Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. at'd.	Air Dry Bulb.	Air Wet Bulb.						Water at surface.
A.M																
1				SW	2		29.85	82	83	81		bcpl	Cum Nimb	4	L	
2				"	1		29.83	82	83	81		bcl	"	2	"	
3				SE	1		29.83	82	82	81		opc	"	0	"	
4				"	2		29.85	82	82	80		bc	"	5	"	
5				SW	1		29.80	80	82	80		"	"	5	"	
6				"	1		29.81	80	81	79		"	"	3	"	
7				E	1		29.83	80	80	79		"	"	1	"	
8		Underway		S	1		29.84	80	81	80		"	"	2	"	
9	0	0		SSW	2		29.88	81	84	81		bcp	"	3	"	
10	5	4		"	1-2		29.88	82	84	81		"	"	2	"	
	3	0														
11	8	0		"	1		29.86	82	84	81		bcqr	"	2	"	
	3	6														
Noon	3	4		"	1		29.85	82	85	82		bcp	"	3	"	

Distance run by Log since preceding Noon	knots	fathoms.
Latitude by D. R. at Noon	o	i "
Longitude by D. R. at Noon	o	i "
Latitude by Observations at Noon ⊕	o	i "
Longitude by Chronometer from Forenoon Observations ⊕	o	i "
Current during the time knots fms. per hour, setting to the		
Variation of the Compass by Amplitude ⊕ observed at Sunrise	o	" "
Variation of the Compass by Azimuth ⊕ observed at	o	" "
Water expended during the preceding 24 hours		250 gallons.
Water during the preceding 24 hours		"
Water remaining on hand fit for me at Noon		2400 "
Coal consumed during the preceding 24 hours	4 tons	1250 lbs.
Coal remaining on hand at Noon	140 "	2085 "

P.M.												
1	Standing in for Sinou	SSW	2	29.82	82	85	82	bc	Cum Nimb	3	L	
2		WSW	2	29.80	82	85	82	o	"	0	"	
3	At Anchor.	SW	3	29.79	82	85	82	op	"	0	"	
4		"	3	29.78	82	85	82	o	"	0	"	
5		"	3	29.80	80	84	82	op	"	0	"	
6		"	3	29.83	80	83	82	or	"	0	"	
7		SSE	2	29.85	80	81	80	"	"	0	"	
8		"	2	29.88	80	82	80	op	"	0	"	
9		"	1	29.88	80	82	80	o	"	0	"	
10		"	1	29.90	81	82	80	"	"	0	"	
11		"	1	29.88	81	82	80	"	"	0	"	
Mid.		"	1	29.86	81	82	80	otl	"	0	"	

Longitude by Chronometer from Afternoon Observations ⊕	o	i "
Longitude by Chronometer Observations]	o	i "
Variation of the Compass by Amplitude observed at Sunset	o	i "
Variation of the Compass by at	o	i "

under the command of Commander Winfield Scott Schley, U. S. Navy.
Saturday November 3rd, 1877.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Cloudy. Passing showers. Lightening around horizon. Light breeze from S. W. shifting to S. E. Fires banked in four boilers.

(Signed) Charles B. T. Moore
Ensign.

From 4 to 8 A.M. Cloudy and pleasant. Light variable airs. At 7.30 got underway and stood out from Cestos River. Draught forward 13 feet 11 in. Amidships 14 feet 11 in. Aft 16 feet. At 7.20 spread fires in four boilers. Steam pressure 60 lbs. Revolutions 49. At 8 took departure, Cestos Point bearing E. N. E. 1/2 E. distant four miles.

(Signed) James K. Cogswell
Lieut.

From 8 to Merid. Cloudy. Light breeze from S. S. W. Frequent rain squalls and passing showers during watch. At 9, set head sails and main trysail. At 10, took in and furled head sails and main trysail. Changed course at 9.40 to S. E. by S. At 11, to S. E. 3/4 S. and at 11.25 to S. E. Steaming four boilers. Steam pressure 65 lbs. Revolutions 50.

(Signed) Clinton K. Curtis
Lieut.

From Merid. to 4 P.M. Partially clear. Passing showers. Moderate S[outher]ly breeze. At 12, got cast of deep sea lead in 33 fathoms, black sand. At 12.15 set main trysail, at 12.50 took it in. at 1.30 came to off Sinou Village in 8 fathoms water, veering to 30 fathoms port chain. Draught forward 13 ft 11. Amidships 14 feet 11 in. Aft 16 feet. Bearings at anchor. Bhobaua S. E. by E. Fires banked in four boilers. Steam pressure 25 lbs. Distilling.

(Signed) Samuel C. Lemly
Ensign.

From 4 to 8 P.M. Overcast and raining. Light breeze from S. W. shifting S. S. E. Fires banked in four boilers. Steam pressure 26 lbs. Distilling.

(Signed) Charles B. T. Moore
Ensign.

From 8 to Midnight. Overcast and cloudy. Light airs from S. and E. Barometer falling. Fires banked in four boilers. Steam pressure 26 lbs. Distilling.

(Signed) Clinton K. Curtis
Lieut.

(Signed) Asa Walker,
Lieut
Navigator.

Examined and found to be correct

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Off Sinou Village, Settra River, Liberia, and at Sea.

Hour.	Knots Fathoms.	Courses steered.	WINDS.		Leeway.	BAROMETER.		TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
			Direction.	Force.		Height in inches.	Ther. at'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A.M															
1			E	1		29.84	80	81	80		bc	Cum Nimb	1	L	
2			Calm	0		29.82	80	81	80		ol	"	0	"	
3			E	1		29.81	80	81	80		"	"	0	"	
4			"	1		29.81	80	81	80		bcl	"	2	"	
5			"	1		29.82	80	80	79		"	"	3	"	
6			"	1		29.84	80	80	79		o	"	0	"	
7			Calm	0		29.85	80	80	79		bc	"	0	"	
8			E	1		29.86	80	80	79		"	"	1	"	
9			ENE	1		29.86	80	82	80		o	"	0	"	
10			"	1		29.87	80	82	80		bc	"	3	"	
11			SSW	1		29.87	81	83	82		"	"	3	"	
Noon			S	1		29.85	82	84	82		"	"	4	"	

Distance run by Log since preceding Noon

knots fathoms.

Latitude by D. R. at Noon

° ' "

Longitude by D. R. at Noon

° ' "

Latitude by Observations at Noon ⊕

° ' "

Longitude by Chronometer from Forenoon Observations ⊕

° ' "

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊕ observed at Sunrise

° " "

Variation of the Compass by Azimuth ⊕ observed at

° " "

Water expended during the preceding 24 hours

250 gallons.

Water Condensed during the preceding 24 hours

300 "

Water remaining on hand fit for me at Noon

2490 "

Coal consumed during the preceding 24 hours

5 tons 770 lbs.

Coal remaining on hand at Noon

135 " 1315 "

P.M.

1	At Anchor	S	1	29.82	83	84	83	bc	Cum	5	L
2	4 4 SE 1/2 S	"	2	29.78	83	85	83	"	"	5	"
3	At Anchor	"	1	29.78	83	84	82	"	"	3	"
4		"	1	29.78	82	83	81	or	Cum Nimb	0	"
5		S and W	2	29.78	82	83	81	"	"	0	"
6		"	2	29.79	82	83	81	"	"	1	"
7		"	2	29.83	82	83	81	"	"	2	"
8		"	2	29.83	82	83	82	"	"	3	"
9	3 0 S by E	SW	3	29.87	82	83	82	bcol	"	5	"
10	4 4 "	SSW	3	29.87	82	83	82	or	"	0	"
11	4 0 "	S by E	3	29.87	80	80	80	bcr	"	5	M
Mid.	4 0 "	"	3	29.86	80	80	80	bc	"	5	"

Longitude by Chronometer from Afternoon Observations ⊕

° ' "

Longitude by Chronometer Observations

° ' "

Variation of the Compass by Amplitude

observed at Sunset

° ' "

Variation of the Compass by

at

° ' "

under the command of Commander Winfield Scott Schley, U. S. Navy.
Sunday November 4th, 1877.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Overcast. Light E[aster]ly breeze. Cum. Nimb. clouds. Ship rolling heavily. Fires banked in four boilers. Distilling.

(Signed) Charles B. T. Moore
Ensign.

From 4 to 8 A.M. Cloudy. Light airs from E. and calm. Fires banked in four boilers. Steam pressure 25 lbs. Distilling.

(Signed) James K. Cogswell
Lieut.

From 8 to Merid. Cloudy and warm. Light variable airs. At 9.40 Comdg. Officer inspected ship and crew at quarters. Afterwards all hands were called to muster, when Articles of War were read, also prayers, and crew mustered. Fires banked in four boilers. Stream pressure 20 lbs.

(Signed) Clinton K. Curtis
Lieut.

From Merid. to 4 P.M. Cloudy. Rainy during last hour. Light breeze from S. At 1.05 got underway and stood down the coast. At 2.55 came to off Settra River, in 10 fathoms water, veering to 30 fathoms port chain. Brought from Sinou Messrs Jones and Loury, Commissioners on behalf of the Liberian Government, to adjust difficulties with native tribes. Draught forward 13 feet 11 in. Amidships 14 feet 11 in. Aft 16 feet. Bearings at anchor. Kroo Rocks (pc) N. by W. 3/4 W. Settra River E. by N.

(Signed) Charles B. T. Moore
Ensign.

From 4 to 8 P.M. Overcast and rainy. Moderate breeze from S. At 7.45 prepared to get underway.

(Signed) James K. Cogswell
Lieut.

From 8 to Midnight. Cloudy and rainy. Moderate breeze from S. and W. At 8.20 got underway and set the course S. by E. At 9.50, 10.50 and 11.50 got soundings in 23, 31 and 35 fathoms of water. Draught forward 13 feet 11 in. Amidships 14 feet 11 in. Aft 16 feet. Steaming with four boilers. Steam pressure 55 lbs. Revolutions 34.

(Signed) Asa Walker
Lieut.

(Signed) Asa Walker,
Lieut
Navigator.

Examined and found to be correct

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, At Sea and Cape Palmas, Liberia

Hour.	Knots Fathoms.			WINDS.			BAROMETER.			TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
				Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. air'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A.M																	
1	5	0	SE	S by E	1-2	29.83	81	83	81		bcp	Cum Nimb	4				
2	4	0	"	"	2	29.82	81	83	81		"	"	2				
3	4	4	"	"	1	29.80	80	83	81		bc	"	2				
4	4	4	"	"	1	29.79	80	83	81		bcp	"	1	L			
5	4	4	"	"	2	29.78	80	83	81		"	"	4	"			
6	4	4	"	"	2	29.80	80	82	80		od	"	0	S			
7	6	0	"	S	2	29.82	81	83	80		op	"	0	"			
8	6	2	"	"	2	29.85	81	83	81		"	"	0	"			
9	7	0	"	"	3	29.85	81	83	82		bc	Cir Cum	5	"			
10	Standing in to Cape Palmas At Anchor			"	3	29.87	82	84	82		"	"	6	"			
11				"	3	29.85	82	84	82		"	"	6	"			
Noon				"	2	29.83	83	85	83		"	"	2	"			

Distance run by Log since preceding Noon	knots	fathoms.
Latitude by D. R. at Noon	o	' "
Longitude by D. R. at Noon	o	' "
Latitude by Observations at Noon ⊕	o	' "
Longitude by Chronometer from Forenoon Observations ⊕	o	' "
Current during the time knots fms. per hour, setting to the	o	" "
Variation of the Compass by Amplitude ⊕ observed at Sunrise	o	" "
Variation of the Compass by Azimuth ⊕ observed at	o	" "
Water expended during the preceding 24 hours		250 gallons.
Water during the preceding 24 hours		"
Water remaining on hand fit for me at Noon		2240 "
Coal consumed during the preceding 24 hours	4 tons	1950 lbs.
Coal remaining on hand at Noon	130 "	1605 "

P.M.															
1		SSW	2			29.81	83	85	83		bcp	Cum Nimb	2	S	
2		"	2			29.78	83	85	84		"	"	3	"	
3		"	1			29.78	83	86	83		"	"	3	"	
4		"	1			29.78	83	86	83		"	"	3	"	
5		"	1			29.79	84	86	83		or	"	0	L	
6		"	2			29.81	83	85	82		bc	"	3	"	
7		"	2			29.83	82	84	81		or	"	0	"	
8		"	2			29.85	81	83	81		o	"	0	"	
9		"	2			29.86	82	83	81		bcr	"	1	"	
10		"	2			29.86	81	82	81		"	"	4	"	
11		"	3			29.86	81	82	81		"	"	2	"	
Mid.		"	2			29.85	81	82	81		"	"	8	"	

Longitude by Chronometer from Afternoon Observations ⊕	o	' "
Longitude by Chronometer Observations]	o	' "
Variation of the Compass by Amplitude observed at Sunset	o	' "
Variation of the Compass by at	o	' "

under the command of Commander Winfield Scott Schley, U. S. Navy.
Monday November 5th, 1877.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Overcast. Passing showers during watch. Light breeze from S. and E. Got cast of lead every hour, bottom 35 fathoms, black mud, first three casts 32 fathoms last cast. Barometer falling.

(Signed) Clinton K. Curtis
Lieut.

From 4 to 8 A.M. Overcast. Frequent passing showers. Light breeze from S. Steaming with four boilers. Got cast of lead every hour. One sail in sight. Steam pressure 60 lbs. Revolutions 44. At 8, changed course to S. E. by S. Bottom at 5 and 6, 33 fathoms, black mud. At 7, 30 fathoms. At 8, 28 fathoms, gravel.

(Signed) Charles B. T. Moore
Ensign.

From 8 to Merid. Cloudy and warm. Rainy. At 10.50 came to anchor off Cape Palmas in 7 1/2 fathoms water, veering to 15 fathoms port chain. Gravel bottom. Afterwards, veered to 45 fathoms. Cape Palmas Light bore (pc) S. E. by E. 1/2 E. distant 1 1/4 miles. Draught forward 13 feet 10 in. Amidships 14 feet 10 in. Aft 15 feet 11 in. Let fires die out in two boilers. Banked fires in two boilers. Distilling.

(Signed) James K. Cogswell
Lieut.

From Merid. to 4 P.M. Cloudy. Passing showers first and last hour. Light breeze from S. and W. Barometer falling. At 1 loosed sail today. At 1.20, on account of indications of rain, furled sail. At 1.40 laid aloft and mended sail. French brig came in and anchored.

(Signed) Clinton K. Curtis
Lieut.

From 4 to 8 P.M. Cloudy. Heavy rain squalls. Cum. Nimb. clouds. Light breeze from S. S. W. Fires banked in two boilers. Steam pressure 29 lbs. Distilling.

(Signed) Charles B. T. Moore
Ensign.

From 8 to Midnight. Cloudy and rainy. Light breeze from S. and W. Long swell from S. W. Fires banked in two boilers. Distilling.

(Signed) Asa Walker
Lieut.

(Signed) Asa Walker,
Lieut
Navigator.

Examined and found to be correct

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns,
Cape Palmas, Liberia

Hour.	Knots Fathoms.	WINDS.				BAROMETER.		TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
		Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. air'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A.M															
1			SW	1		29.84	81	82	80		bcp	Cum Nimb	5	L	
2			"	2		29.82	81	82	80		bc	"	3	"	
3			"	2		29.80	81	82	80		"	"	1	"	
4			"	2		29.80	81	82	80		"	"	2	"	
5			SSW	1		29.81	81	82	81		or	"	0	"	
6			"	1		29.82	80	82	81		bc	"	2	"	
7			"	1		29.83	80	82	80		or	"	0	"	
8			"	1		29.85	79	81	80		"	"	0	"	
9			"	2		29.85	79	81	79		"	"	0	"	
10			"	1		29.86	80	81	79		bcp	"	2	"	
11			"	1		29.84	80	82	80		op	"	0	"	
Noon			"	2		29.82	80	82	80		"	"	0	"	

Distance run by Log since preceding Noon

Latitude by D. R. at Noon

Longitude by D. R. at Noon

Latitude by Observations at Noon ⊕

Longitude by Chronometer from Forenoon Observations ⊕

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude \oplus observed at Sunrise

Variation of the Compass by Azimuth \oplus observed at

Water expended during the preceding 24 hours

Water Condensed during the preceding 24 hours

Water remaining on hand fit for me at Noon

Coal consumed during the preceding 24 hours

Coal remaining on hand at Noon

P.M.

1	SW	2	29.82	81	82	80	bc	Cum Nimb	5	L
2	"	2	29.80	81	82	80	"	"	1	"
3	S	3	29.80	81	83	82	or	"	0	"
4	SW	2	29.79	81	83	82	bc	"	1	"
5	SSW	2	29.81	81	83	82	"	"	1	"
6	"	2	29.82	80	82	80	"	"	1	"
7	"	2	29.84	80	80	79	or	"	0	"
8	"	1	29.86	80	80	79	"	"	0	"
9	"	2	29.87	81	80	80	op	"	0	"
10	"	2	29.89	81	80	80	"	"	0	"
11	"	2	29.88	81	80	79	"	"	0	"
Mid.	"	3-6	29.87	81	80	79	oqp	"	0	"

Longitude by Chronometer from Afternoon Observations ⊕

Longitude by Chronometer Observations

Variation of the Compass by Amplitude observed at Sunset

Variation of the Compass by

under the command of Commander Winfield Scott Schley, U. S. Navy.
Tuesday November 6th, 1877.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Cloudy and threatening throughout watch. Barometer falling. Wind light from S. W. increasing to moderate breeze.

(Signed) James K. Cogswell
Lieut.

From 4 to 8 A.M. Overcast. Rainy. At 7, stopped distilling. Light S. S. W. breeze.

(Signed) Clinton K. Curtis
Lieut.

From 8 to Merid. Overcast, raining. Light breeze from S. S. W. At 8.30 hauled fires in two boilers. Board of Survey condemned and threw overboard 1/2 bbl pork.

(Signed) Samuel C. Lemly
Ensign.

From Merid. to 4 P.M. Cloudy and rainy. Light breeze from S. and W.

(Signed) Charles B. T. Moore
Ensign.

From 4 to 8 P.M. Cloudy and threatening first part. Rainy latter part. Barometer rising.

(Signed) James K. Cogswell
Lieut.

From 8 to Midnight. Overcast, rainy. Light breeze from S. S. W. Heavy rain squall last hour.

(Signed) Samuel C. Lemly
Ensign.

(Signed) Asa Walker,
Lieut
Navigator.

Examined and found to be correct

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns,
Cape Palmas, Liberia

Hour.	Knots Fathoms.	Courses steered.	WINDS.		BAROMETER.		TEMPERATURE.				State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
			Direction.	Force.	Leeway.	Height in inches.	Ther. air'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A.M															
1			S	2		29.84	80	80	79		bc	Nimb	8	L	
2			"	3		29.84	80	80	79		"	"	3	"	
3			SE	2		29.81	80	80	79		"	"	4	"	
4			E	2		29.80	80	80	79		"	"	8	"	
5			NE	2		29.82	77	80	78		"	Cum	6	"	
6			"	1-2		29.82	77	80	78		"	"	4	"	
7			ENE	1-2		29.84	79	80	80		"	"	5	"	
8			"	1		29.86	80	81	80		"	"	5	"	
9			E	1		29.86	80	81	80		"	Cum Nimb	5	"	
10			ESE	1		29.86	81	82	81		"	"	4	"	
11			"	1		29.86	81	83	81		"	"	4	"	
Noon			"	1		29.86	81	83	82		"	"	4	"	

Distance run by Log since preceding Noon

Latitude by D. R. at Noon

Longitude by D. R. at Noon

Latitude by Observations at Noon ⊕

Longitude by Chronometer from Forenoon Observations ⊕

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude \oplus observed at Sunrise

Variation of the Compass by Azimuth \oplus observed at

Water expended during the preceding 24 hours

Water during the preceding 24 hours

Water remaining on hand fit for me at Noon

Coal consumed during the preceding 24 hours

Coal remaining on hand at Noon

P.M.

1	SSW	1	29.84	82	84	83	bc	Cum Nimb	4	L
---	-----	---	-------	----	----	----	----	----------	---	---

2	"	2	29.81	82	84	83	"	"	5	"
---	---	---	-------	----	----	----	---	---	---	---

3	"	2	29.80	82	84	83	"	"	4	"
---	---	---	-------	----	----	----	---	---	---	---

4	"	2	29.82	82	84	83	"	"	5	"
---	---	---	-------	----	----	----	---	---	---	---

5	S	2	29.80	83	84	82	"	"	6	"
---	---	---	-------	----	----	----	---	---	---	---

6	"	2	29.82	82	83	81	"	"	8	"
---	---	---	-------	----	----	----	---	---	---	---

7	"	1	29.83	80	82	80	"	"	9	"
---	---	---	-------	----	----	----	---	---	---	---

8	"	1	29.85	81	82	80	"	"	9	"
---	---	---	-------	----	----	----	---	---	---	---

9	"	1	29.85	81	82	81	"	"	9	"
---	---	---	-------	----	----	----	---	---	---	---

10	"	1	29.86	81	82	82	"	"	8	"
----	---	---	-------	----	----	----	---	---	---	---

11	"	1	29.86	81	82	82	"	"	2	"
----	---	---	-------	----	----	----	---	---	---	---

Mid.	"	1	29.86	81	82	82	"	"	2	"
------	---	---	-------	----	----	----	---	---	---	---

Longitude by Chronometer from Afternoon Observations ⊕

Longitude by Chronometer Observations

Variation of the Compass by Amplitude observed at Sunset

Variation of the Compass by

under the command of Commander Winfield Scott Schley, U. S. Navy.
Wednesday November 7th, 1877.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Cloudy and pleasant. Light breeze from S. and E. Long swell from W.

(Signed) Charles B. T. Moore
Ensign.

From 4 to 8 A.M. Partially cloudy and pleasant. Light breeze from N. and E. Barometer rising. At 8 loosed sail to day.

(Signed) James K. Cogswell
Lieut.

From 8 to Merid. Partially clear. Warm. Light E. S. E. Cum. Nimb. clouds. At 9.15 inspected at quarters.

(Signed) Clinton K. Curtis
Lieut.

From Merid. to 4 P.M. Cloudy and warm. Light breeze from S. S. W. At 1.55 furled sail. Unbent topgallant sails.

(Signed) Samuel C. Lemly
Ensign.

From 4 to 8 P.M. Clear and pleasant. Light airs from S. Long swell from S. and W.

(Signed) Charles B. T. Moore
Ensign.

From 8 to Midnight. Clear and pleasant. Light southerly airs first part of watch, cloudy latter part. Cum. Nimb. cloudy.

(Signed) Clinton K. Custer
Lieut.

(Signed) Asa Walker,
Lieut
Navigator.

Examined and found to be correct

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns,
Cape Palmas, Liberia

Hour.	Knots Fathoms.	WINDS.			BAROMETER.		TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
		Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. air'd.	Air Dry Bulb.	Air Wet Bulb.					
A.M														
1			ESE	1		29.84	82	83	81	bc	Cum Nimb	9	L	
2			"	2		29.81	82	83	81	"	"	9	"	
3			"	2		29.80	82	83	81	"	"	8	"	
4			E	2		29.82	82	83	81	"	"	3	"	
5			"	1		29.82	78	80	79	"	"	7	"	
6			"	1		29.83	78	79	78	"	"	2	"	
7			"	1		29.85	79	81	80	"	"	4	"	
8			"	1		29.86	80	82	81	"	"	8	"	
9			S by E	1		29.88	81	83	82	"	Cir Cum	7	"	
10			"	1		29.90	81	84	80	"	"	7	"	
11			SSE	1		29.90	81	84	80	"	"		"	
Noon			"	1		29.86	82	85	83	"	"		"	

Distance run by Log since preceding Noon	knots		fathoms.
Latitude by D. R. at Noon	°	'	"
Longitude by D. R. at Noon	°	'	"
Latitude by Observations at Noon ⊕	°	'	"
Longitude by Chronometer from Forenoon Observations ⊕	°	'	"
Current during the time	knots	fms. per hour, setting to the	
Variation of the Compass by Amplitude ⊕ observed at Sunrise	°	"	"
Variation of the Compass by Azimuth ⊕ observed at	°	"	"
Water expended during the preceding 24 hours			250 gallons
Water		during the preceding 24 hours	"
Water remaining on hand fit for me at Noon			2200 "
Coal consumed during the preceding 24 hours		tons	250 lbs.
Coal remaining on hand at Noon	128	"	1835 "

P.M.											
1	S	2	29.82	82	85	83	bc	Cum Nimb	7	L	
2	"	2	29.84	83	86	83	"	"	6	"	
3	"	2	29.82	83	86	83	"	"	4	"	
4	SSW	2	29.81	83	86	83	"	"	5	"	
5	"	2	29.83	83	84	82	"	"	6	"	
6	"	2	29.85	82	83	82	"	"	5	"	
7	S	2	29.86	82	82	81	"	"	5	"	
8	"	2	29.87	82	82	81	"	"	4	"	
9	SSW	1-2	29.89	82	83	81	"	"	4	"	
10	"	1-2	29.90	82	83	81	"	"	4	"	
11	"	2	29.90	82	83	81	"	"	2	"	
Mid.	"	2	29.90	82	83	81	bcp	"	2	"	

Longitude by Chronometer from Afternoon Observations ⊕	°	'	"
Longitude by Chronometer Observations]	°	'	"
Variation of the Compass by Amplitude observed at Sunset	°	'	"
Variation of the Compass by at	°	'	"

under the command of Commander Winfield Scott Schley, U. S. Navy.
Thursday November 8th, 1877.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear and pleasant. Light breeze from E. S. E.

(Signed) Samuel C. Lemly
Ensign.

From 4 to 8 A.M. Cloudy and pleasant. Light airs from E. At 8 loosed sail to a bowline.

(Signed) Charles B. T. Moore
Ensign.

From 8 to Merid. Clear warm and pleasant. Light airs from S. and E. At 9.15 inspected at quarters, exercised gun divisions at great guns. Crew engaged in scraping blocks.

(Signed) James K. Cogswell
Lieut.

From Merid. to 4 P.M. Clear. Warm. Light E[aster]ly breeze. Cum. Nimb. clouds. At 1, shortened and furled sail.

(Signed) Clinton K. Curtis
Lieut.

From 4 to 8 P.M. Cloudy, pleasant. Light breeze from S. and W. Light rain showers last hour. At 4.30 sent mail on broad English steamer "Niger" in offing. At 5, "Niger" stood out to W.

(Signed) Samuel C. Lemly
Ensign.

From 8 to Midnight. Partially cloudy. Pleasant. Light breeze from S. and W. Passing showers last hour.

(Signed) James K. Cogswell
Lieut.

(Signed) Asa Walker,
Lieut
Navigator.

Examined and found to be correct

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Cape Palmas, Liberia

Hour.	Knots Fathoms.	WINDS.		BAROMETER.		TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
		Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. at't'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.			
A.M													
1			SSW	1		29.89	81	82	82	bc	Cum Nimb	7	L
2			"	1		29.88	81	82	82	"	"	5	"
3			"	1		29.87	81	82	82	"	"	3	"
4			"	1		29.86	81	82	82	or	"	0	"
5			"	2		29.87	82	83	81	op	"	0	"
6			"	2		29.89	82	83	81	o	"	0	"
7			"	2		29.87	82	82	81	o	"	0	"
8			S	1		29.85	82	82	81	or	"	0	"
9			"	1		29.81	81	81	80	"	"	0	"
10			"	1		29.82	80	81	80	"	"	0	"
11			"	1		29.84	79	80	79	"	"	0	"
Noon			"	1		29.85	79	80	79	"	"	0	"

Distance run by Log since preceding Noon

knots

fathoms.

Latitude by D. R. at Noon

o

'

"

Longitude by D. R. at Noon

o

'

"

Latitude by Observations at Noon ⊕

o

'

"

Longitude by Chronometer from Forenoon Observations ⊕

o

'

"

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊕ observed at Sunrise

o

"

"

Variation of the Compass by Azimuth ⊕ observed at

o

"

"

Water expended during the preceding 24 hours

250 gallons.

Water Caught during the preceding 24 hours

250 "

Water remaining on hand fit for me at Noon

2250 "

Coal consumed during the preceding 24 hours

tons 250 lbs.

Coal remaining on hand at Noon

128 " 1585 "

P.M.

1		SSE	1		29.83	80	80	79	or	Cum Nimb	0	L
2		"	1		29.83	80	81	79	"	"	0	"
3		S	1		29.83	80	81	79	"	"	0	"
4		"	1		29.83	80	81	79	"	"	0	"
5		SE	1		29.84	80	80	79	"	"	0	"
6		E	1		29.86	79	79	78	"	"	0	"
7		NE	1		29.88	78	79	77	"	"	0	"
8		N	1		29.90	78	78	76	o	"	0	"
9		NE	1		29.92	78	78	76	"	"	0	"
10		"	1		29.93	78	78	76	"	"	0	"
11		"	1		29.92	78	78	76	"	"	0	"
Mid.		"	1		29.91	78	78	76	"	"	0	"

Longitude by Chronometer from Afternoon Observations ⊕

o

'

"

Longitude by Chronometer Observations]

o

'

"

Variation of the Compass by Amplitude observed at Sunset

o

'

"

Variation of the Compass by at

o

'

"

under the command of Commander Winfield Scott Schley, U. S. Navy.
Friday November 9th, 1877.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear and pleasant first part of watch. Overcast and rainy last part.
Light S. S. W. breeze. Cum. Nimb. clouds.

(Signed) Clinton K. Curtis
Lieut.

From 4 to 8 A.M. Overcast. Heavy rain showers first and last hour. Light breeze from S. and W.

(Signed) Samuel C. Lemly
Ensign.

From 8 to Merid. Overcast. Rainy. Light airs from S. At 9.30 Commanding Officer and staff went
ashore to hold a palaver with a native King.

(Signed) Charles B. T. Moore
Ensign.

From Merid. to 4 P.M. Overcast and rainy. Light breeze from S. and E. Barometer steady.

(Signed) James K. Cogswell
Lieut.

From 4 to 8 P.M. Overcast. Rainy. Light variable airs. Cum. Nimb. clouds.

(Signed) Clinton K. Curtis
Lieut.

From 8 to Midnight. Cloudy and pleasant. Light airs from N. and E.

(Signed) Charles B. T. Moore
Ensign.

(Signed) Asa Walker,
Lieut
Navigator.

Examined and found to be correct

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Cape Palmas, Liberia

Hour.	Knots Fathoms.	WINDS.		BAROMETER.			TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
		Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.				
A.M														
1			NNE	1		29.89	79	79	77	od	Nimb	0	L	
2			"	1		29.89	79	79	77	o	"	0	"	
3			"	1		29.87	79	79	77	"	"	0	"	
4			"	1		29.86	79	79	77	"	"	0	"	
5			Calm	0		29.87	78	78	77	"	Cum Nimb	0	"	
6			"	0		29.89	77	78	77	bc	"	1	"	
7			"	0		29.91	77	78	77	"	"	1	"	
8			"	0		29.94	77	79	79	"	"	1	"	
9			NNW	1		29.93	79	80	80	"	"	2	"	
10			"	1		29.92	80	81	80	"	"	3	"	
11			"	1		29.91	81	82	80	"	"	3	"	
Noon			"	1		29.90	81	82	80	"	"	2	"	

Distance run by Log since preceding Noon

knots

fathoms.

Latitude by D. R. at Noon

o

'

"

Longitude by D. R. at Noon

o

'

"

Latitude by Observations at Noon ⊕

o

'

"

Longitude by Chronometer from Forenoon Observations ⊕

o

'

"

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊕ observed at Sunrise

o

"

"

Variation of the Compass by Azimuth ⊕ observed at

o

"

"

Water expended during the preceding 24 hours

250 gallons.

Water during the preceding 24 hours

"

Water remaining on hand fit for me at Noon

2000

"

Coal consumed during the preceding 24 hours

tons

250

lbs.

Coal remaining on hand at Noon

128

"

1335

"

P.M.

1		SW	1		29.90	81	82	80	o	Cum Nimb	0	L	
2		"	1		29.86	81	83	81	bc	"	1	"	
3		"	1		29.86	81	83	81	"	"	1	"	
4		"	1		29.86	81	84	82	"	"	1	"	
5		"	1		29.88	81	83	81	bcp	"	1	"	
6		"	1		29.89	80	82	80	or	"	0	"	
7		"	1		29.91	80	81	80	o	"	0	"	
8		"	1		29.93	80	81	80	"	"	0	"	
9		SE	1		29.93	79	79	78	"	"	0	"	
10		WNW	2		29.93	79	79	78	"	"	0	"	
11		NNW	2		29.92	79	79	78	"	"	0	"	
Mid.		"	1		29.91	79	80	78	"	"	0	"	

Longitude by Chronometer from Afternoon Observations ⊕

o

'

"

Longitude by Chronometer Observations]

o

'

"

Variation of the Compass by Amplitude observed at Sunset

o

'

"

Variation of the Compass by at

o

'

"

under the command of Commander Winfield Scott Schley, U. S. Navy.
Saturday November 10th, 1877.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Cloudy, drizzling rain first hour. Light airs from N. and E.
Barometer falling slowly.

(Signed) James K. Cogswell
Lieut.

From 4 to 8 A.M. Cloudy. Pleasant. Calm. Cumulus Nimbus clouds.

(Signed) Clinton K. Curtis
Lieut.

From 8 to Merid. Cloudy, pleasant. Light airs from N. and W. At 9.55 loosed sail to a bowline. At
10, English steamer "Kinsunbo" came in and anchored, sent mail on board. Aired bedding.

(Signed) Samuel C. Lemly
Ensign.

From Merid. to 4 P.M. Cloudy and warm. Light airs from S. and W.

(Signed) Charles B. T. Moore
Ensign.

From 4 to 8 P.M. Cloudy and rainy first part. Light breeze from S. W. Barometer rising. At 6,
steamer "Kinsunbo" shifted her anchorage.

(Signed) James K. Cogswell
Lieut.

From 8 to Midnight. Overcast, pleasant. Light breeze from N. and W. At 11.30 English steamer
"Kinsunbo" left the harbor.

(Signed) Samuel C. Lemly
Ensign.

(Signed) Asa Walker,
Lieut
Navigator.

Examined and found to be correct

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Cape Palmas, Liberia

Hour.	Knots Fathoms.	WINDS.		BAROMETER.		TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
		Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.			
A.M													
1			N	2		29.91	80	80	79	o	Cum Nimb	0	L
2			"	2		29.90	80	80	79	"		0	"
3			"	2		29.88	80	79	77	"		0	"
4			"	2		29.86	78	78	76	bc		4	"
5			"	1		29.87	76	79	77	"		3	"
6			"	1		29.87	76	79	77	"		3	"
7			NW	1		29.93	78	79	77	"		2	"
8			"	1		29.93	79	80	78	"		2	"
9			"	1		29.92	79	82	79	"		3	"
10			"	2		29.92	79	82	80	"		2	"
11			W	1		29.92	79	82	80	or		0	"
Noon			"	1		29.92	79	82	80	"		0	"

Distance run by Log since preceding Noon

knots

fathoms.

Latitude by D. R. at Noon

o

'

"

Longitude by D. R. at Noon

o

'

"

Latitude by Observations at Noon ⊕

o

'

"

Longitude by Chronometer from Forenoon Observations ⊕

o

'

"

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊕ observed at Sunrise

o

"

"

Variation of the Compass by Azimuth ⊕ observed at

o

"

"

Water expended during the preceding 24 hours

250 gallons.

Water during the preceding 24 hours

"

Water remaining on hand fit for me at Noon

1750

"

Coal consumed during the preceding 24 hours

tons

250

lbs.

Coal remaining on hand at Noon

128

"

1085

"

P.M.

1		WSW	1		29.89	79	80	79	or	Cum Nimb	0	L
2		"	1		29.87	79	80	79	"	"	0	"
3		"	1		29.87	79	80	79	"	"	0	"
4		"	1		29.87	79	80	79	"	"	0	"
5		SSW	1		29.88	80	80	78	op	"	0	"
6		SW	1		29.90	80	80	78	o	"	0	"
7		"	1		29.91	80	80	79	"	"	0	"
8		W	1		29.92	80	80	79	"	"	0	"
9		N and W	0-1		29.92	80	80	79	bc	"	1	"
10		"	0-1		29.92	80	81	80	"	"	2	"
11		"	0-1		29.93	80	81	80	"	"	3	"
Mid.		"	0-1		29.93	80	81	80	"	"	3	"

Longitude by Chronometer from Afternoon Observations ⊕

o

'

"

Longitude by Chronometer Observations

o

'

"

Variation of the Compass by Amplitude observed at Sunset

o

'

"

Variation of the Compass by at

o

'

"

under the command of Commander Winfield Scott Schley, U. S. Navy.
Sunday November 11th, 1877.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Cloudy and pleasant. Light breeze from N. Ship rolling moderately.

(Signed) Charles B. T. Moore
Ensign.

From 4 to 8 A.M. Cloudy. Pleasant. Light airs from N. and W. Barometer rising.

(Signed) James K. Cogswell
Lieut.

From 8 to Merid. Cloudy and rainy latter part of watch. At 9.30 Commanding Officer inspected ship and crew at quarters, afterwards read prayers.

(Signed) Clinton K. Curtis
Lieut.

From Merid. to 4 P.M. Overcast and rainy, with light airs from W. S. W. Long rolling swell. At 3, a Portuguese steamer went to sea standing to W. At 3.50 English steamer "Corisco" came in and anchored.

(Signed) Samuel C. Lemly
Ensign.

From 4 to 8 P.M. Overcast. Passing showers first hour. Light breeze from S. and W.

(Signed) Charles B. T. Moore
Ensign.

From 8 to Midnight. Cloudy and pleasant. Calm and light airs from N. and W. Long swell from S.

(Signed) Clinton K. Curtis
Lieut.

(Signed) Asa Walker,
Lieut
Navigator.

Examined and found to be correct

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Cape Palmas, Liberia

Hour.	Knots Fathoms.	WINDS.		BAROMETER.			TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
		Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. at't'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.				
A.M														
1			Calm	0		29.93	79	80	79	bc	Cir Cum	2	L	
2			"	0		29.92	79	80	79	"	Cum	2	"	
3			"	0		29.91	78	80	79	"	Cum Nimb	1	"	
4			"	0		29.90	78	80	79	"	"	2	"	
5			"	0		29.89	78	80	79	"	"	3	"	
6			NE	1		29.91	79	80	79	"	"	3	"	
7			W	1		29.93	80	81	80	"	"	4	"	
8			"	1		29.95	80	81	80	"	"	5	"	
9			"	1		29.95	80	81	80	"	Cir Cum	5	"	
10			"	1		29.93	80	83	81	"	"	5	"	
11			"	1		29.91	82	83	82	"	"	9	"	
Noon			"	1		29.90	82	84	82	"	"	9	"	

Distance run by Log since preceding Noon	knots	fathoms.
Latitude by D. R. at Noon	o	i
Longitude by D. R. at Noon	o	i
Latitude by Observations at Noon ⊕	o	i
Longitude by Chronometer from Forenoon Observations ⊕	o	i
Current during the time	knots	fms. per hour, setting to the
Variation of the Compass by Amplitude ⊕ observed at Sunrise	o	"
Variation of the Compass by Azimuth ⊕ observed at	o	"
Water expended during the preceding 24 hours		250 gallons.
Water		during the preceding 24 hours
Water remaining on hand fit for me at Noon		1500 "
Coal consumed during the preceding 24 hours	tons	250 lbs.
Coal remaining on hand at Noon	128	" 835 "

P.M.														
1			SW	1		29.88	82	84	82	bc	Cir Cum	6	L	
2			"	2		29.87	82	84	82	"	"	5	"	
3			"	2		29.85	82	84	82	"	"	5	"	
4			"	2		29.84	82	84	82	"	"	5	"	
5			"	2		29.83	82	84	82	o	Cum Nimb	0	"	
6			"	2		29.85	82	84	82	bc	"	3	"	
7			"	1		29.87	82	83	81	"	"	3	"	
8			"	1		29.90	81	83	81	"	"	2	"	
9			"	1		29.91	81	83	81	"	"	3	"	
10			"	1		29.92	81	83	81	"	"	3	"	
11			"	1		29.91	80	82	80	"	"	2	"	
Mid.			"	1		29.91	80	82	80	"	"	2	"	

Longitude by Chronometer from Afternoon Observations ⊕	o	i
Longitude by Chronometer Observations]	o	i
Variation of the Compass by Amplitude observed at Sunset	o	i
Variation of the Compass by at	o	i

under the command of Commander Winfield Scott Schley, U. S. Navy.
Monday November 12th, 1877.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Cloudy. Pleasant. Calm. Cum. Nimb. clouds.

(Signed) Samuel C. Lemly
Ensign.

From 4 to 8 A.M. Cloudy. Warm. Calm and light variable airs.

(Signed) Charles B. T. Moore
Ensign.

From 8 to Merid. Clear. Warm. Light W[ester]ly breeze. At 8, loosed sail to a bowline and crossed topgallant yards. At 9.15 exercised at General Quarters. Times as follows. Cast loose and provide 9.20. 1st Div. 4 m. 2nd Div. 3 m. Nav. Div. 1 m. Powder Div. 3 m 30 s. Eng. Div. 1 m. Marine 45 s. Secured 9.46.30. 1st Div. (No Report) 2nd Div. 1 m 45 s. Nav. Div. 2 m. Powder Div. 6 m. Eng. Div. 1 m 1 s. Marine 30 S. British Steamer "Corisco" left the harbor. Boarded British Bark Francis Milly. By order of Commanding Officer, placed Cornelius Robinson (Lds) in solitary confinement, on bread and water, for not obeying orders of superior officer. Gave A. Leigh (O.S.2.C.) two hours extra duty. A. McFadden (O.S.2.C) four hours extra duty for leaving clothes in lucky bag, and Charles Beardsly (O.S.2.C.) four hours extra duty, for being out of uniform.

(Signed) James K. Cogswell
Lieut.

From Merid. to 4 P.M. Clear. Warm. Light S. W. breeze. Cir. Cum. clouds. At 3.45 furled sail.

(Signed) Clinton K. Curtis
Lieut.

From 4 to 8 P.M. Partially cloudy. Pleasant. Light breeze from S. W. Barometer rising. At sundown sent down topgallant yards.

(Signed) Samuel C. Lemly
Ensign.

From 8 to Midnight. Cloudy. Pleasant. Light S. W. breeze. Cum. Nimb. clouds. Obscured moonlight. By order of Commanding Officer, released Cornelius Robinson (Lds) from solitary confinement and confined him in fore passage.

(Signed) James K. Cogswell
Lieut.

(Signed) Asa Walker,
Lieut
Navigator.

Examined and found to be correct

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns,
Cape Palmas and Tabou, Liberia

Hour.	Knots Fathoms.	WINDS.			BAROMETER.		TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
		Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. alt'd.	Air Dry Bulb.	Air Wet Bulb.					
A.M														
1			SW	1		29.89	82	83	81	bcl	Cum Nimb	5	L	
2			"	1		29.87	82	83	81	"	"	4	"	
3			"	2		29.87	82	83	81	"	"	6	"	
4			E	1		29.86	82	83	81	"	"	6	"	
5			"	1		29.85	82	82	80	"	"	6	"	
6			"	1		29.85	78	82	80	"	"	5	"	
7			"	1		29.87	79	83	81	"	"	4	"	
8			"	1		29.90	81	83	81	"	"	4	"	
9			ESE	1		29.89	82	84	82	"	"	4	"	
10			"	1		29.88	82	85	82	"	"	4	"	
11			SE	1		29.87	82	86	84	"	Cir Cum	6	"	
Noon	Underway		"	1		29.86	83	86	84	"	"	7	"	

Distance run by Log since preceding Noon		knots		fathoms.
Latitude by D. R. at Noon	o		"	"
Longitude by D. R. at Noon	o		"	"
Latitude by Observations at Noon ⊕	o		"	"
Longitude by Chronometer from Forenoon Observations ⊕	o		"	"
Current during the time	knots		fms. per hour, setting to the	
Variation of the Compass by Amplitude ⊕ observed at Sunrise	o		"	"
Variation of the Compass by Azimuth ⊕ observed at	o		"	"
Water expended during the preceding 24 hours				250 gallons.
Water			during the preceding 24 hours	"
Water remaining on hand fit for me at Noon				1250 "
Coal consumed during the preceding 24 hours	5	tons	810	lbs.
Coal remaining on hand at Noon	123	"	254	"

P.M.

1	4 4	0 0	E by S E	SE	1	29.85	83	85	83	bc	Cir Cum	7	L
2	Standing in for			"	1	29.84	83	85	83	"	"	5	"
3	Tabou			S	1	29.84	83	85	83	"	"	1	"
4	At Anchor			SW	1	29.83	84	86	84	"	"	1	"
5				"	1	29.85	83	86	84	"	"	1	"
6				"	1	29.85	82	85	83	"	"	1	"
7				"	1	29.87	82	85	83	"	"	1	"
8				SSW	1	29.87	81	85	82	"	"	1	"
9				"	1	29.89	82	85	82	"	Cum Nimb	1-3	"
10				"	1	29.90	82	85	82	"	"	4	"
11				"	2	29.90	82	85	82	"	"	5	"
Mid.				"	1	29.89	82	84	82	"	"	4	"

Longitude by Chronometer from Afternoon Observations \oplus		0	4	"
Longitude by Chronometer Observations]	0	4	"
Variation of the Compass by Amplitude	observed at Sunset	0	4	"
Variation of the Compass by	at	0	4	"

under the command of Commander Winfield Scott Schley, U. S. Navy..
Tuesday November 13th, 1877.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Partially cloudy, pleasant. Light breeze from S. and W. shifting to E. last hour.

(Signed) Clinton K. Curtis
Lieut.

From 4 to 8 A.M. Partially cloudy. Pleasant. Light airs from E. Barometer rising. At 6.30 hoisted smoke pipe. At 8, started fires in four boilers. British Bark "Francis Milly" got underway but wind failing anchored again.

(Signed) Samuel C. Lemly
Ensign.

From 8 to Merid. Clear. Warm. Light S. E. breeze. At 10.30 Governor of Palmar and staff came on board for passage. At 11, got underway and stood down the coast under direction of Navigator. Draught forward 13 feet 10 in. Amidships 14 feet 10 in. Aft 15 feet 11 in. Steaming under four boilers.

(Signed) Charles B. T. Moore
Ensign.

From Merid. to 4 P.M. Cloudy and warm. Light variable airs. At 2.15 came to anchor off Tafou Point, in 8 1/4 fathoms water, veering to 45 fathoms port chain. Bearings at anchorage. Tafou Point N. N. W. Taboh Point E by N 1/4 N. Ships head S. E. Draught forward 13 feet 10 in. Amidships 14 feet 10 in. Aft 15 feet 11 in. A messenger from the King of the tribe at Tabou, came on board with offer to pilot the boat ashore. Sent boat ashore with Marshal of Cape Palmas, and Mr Allison, the interpreter, with letters to the King and serve some processes. Banked fires in four boilers. Steam pressure 35 lbs.

(Signed) James K. Cogswell
Lieut.

From 4 to 8 P.M. Partially cloudy, pleasant. Light S. W. breeze. Barometer rising. Fires banked in four boilers. Distiller in operation. Liberian officials returned on board.

(Signed) Clinton K. Custer
Lieut.

From 8 to Midnight. Cloudy, pleasant. Moonlight. Light breeze from S. and W. Fires banked in four boilers. Steam pressure 25 lbs. Distilling.

(Signed) Charles B. T. Moore
Ensign.

(Signed) Asa Walker,
Lieut
Navigator.

Examined and found to be correct

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Tabou, Liberia

Hour.	Knots Fathoms.	WINDS.		BAROMETER.			TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
		Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. at't'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.				
A.M.														
1			Calm	0		29.86	82	83	81	bc	Cum Nimb	5	L	
2			"	0		29.84	82	83	81	"	"	8	"	
3			NNW	1		29.84	82	83	81	"	"	7	"	
4			"	1		29.83	82	83	81	bcp	"	5	"	
5			NE	1		29.83	82	83	81	bc	"	5	"	
6			SSE	1		29.83	82	83	81	"	"	5	"	
7			"	1		29.87	82	83	83	"	"	5	"	
8			"	1		29.90	82	84	83	"	"	5	"	
9			"	1		29.90	82	85	83	"	Cir Cum	6	"	
10			"	2		29.89	83	85	83	"	"	7	"	
11			"	2		29.88	85	86	84	"	"	7	"	
Noon			"	2		29.88	85	86	84	"	"	7	"	

Distance run by Log since preceding Noon	knots	fathoms.
Latitude by D. R. at Noon	°	' "
Longitude by D. R. at Noon	°	' "
Latitude by Observations at Noon ⊕	°	' "
Longitude by Chronometer from Forenoon Observations ⊕	°	' "
Current during the time	knots	fms. per hour, setting to the
Variation of the Compass by Amplitude ⊕ observed at Sunrise	°	" "
Variation of the Compass by Azimuth ⊕ observed at	°	" "
Water expended during the preceding 24 hours		250 gallons.
Water	during the preceding 24 hours	700 "
Water remaining on hand fit for me at Noon		1600 "
Coal consumed during the preceding 24 hours	2 tons	1270 lbs.
Coal remaining on hand at Noon	120 "	995 "

P.M.														
1		SSE	1	29.87	85	87	84	bc	Cir Cum	4	L			
2		"	1	29.86	85	87	84	"	"	5	"			
3		"	2	29.84	85	87	84	"	"	5	"			
4		"	1	29.82	86	86	84	"	Cum Nimb	4	"			
5		S	1	29.83	86	86	84	"	"	2	"			
6		"	1	29.85	85	85	83	bcl	"	1	"			
7		SW	1	29.87	85	85	83	bc	"	2	"			
8		"	1	29.90	85	85	82	"	"	2	"			
9		"	1	29.91	84	85	82	"	"	6	"			
10		"	1	29.91	83	85	83	"	"	6	"			
11		"	1	29.90	83	85	83	"	"	4	"			
Mid.		"	1	29.89	83	85	83	"	"	4	"			

Longitude by Chronometer from Afternoon Observations ⊕	°	' "
Longitude by Chronometer Observations	°	' "
Variation of the Compass by Amplitude	°	' "
Variation of the Compass by	°	' "

under the command of Commander Winfield Scott Schley, U. S. Navy..
Wednesday November 14th, 1877.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Cloudy and pleasant. Light airs from N. and W. latter part of watch, calm first part. Fires banked in four boilers. Distilling.

(Signed) James K. Cogswell
Lieut.

From 4 to 8 A.M. Partially cloudy. Pleasant. Light airs from N. and E. shifting to S. and E. Barometer rising. Fires banked in four boilers. Distiller in operation.

(Signed) Clinton K. Curtis
Lieut.

From 8 to Merid. Clear. Warm. Light S. S. E. breeze. Cir. Cum. clouds. At 9.15 inspected at quarters. At 11.55 King Ninla and suite visited the ship, officially, for purpose of conferring with Commanding Officer and Liberian Commissioner. Fires banked in four boilers. Steam pressure 25 lbs. Distilling.

(Signed) Samuel C. Lemly
Ensign.

From Merid. to 4 P.M. Cloudy. Pleasant. Light airs from S. S. E. Fires banked in four boilers. Steam pressure 25 lbs. Distilling.

(Signed) Charles B. T. Moore
Ensign.

From 4 to 8 P.M. Cloudy and pleasant. Light airs from S. and W. At 4, King Ninla and suite left the ship. Fires banked in four boilers. Steam pressure 25 lbs. Distilling.

(Signed) James K. Cogswell
Lieut.

From 8 to Midnight. Cloudy. Pleasant. Light S. W[ester]ly breeze. Cum. Nimb. clouds. Fires banked in four boilers. Steam pressure 25 lbs. Distilling.

(Signed) Samuel C. Lemly
Ensign.

(Signed) Asa Walker,
Lieut
Navigator.

Examined and found to be correct

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Tabou and Cape Palmas, Liberia

		WINDS.			BAROMETER.			TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.		
Hour.	Knots Fathoms.	Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. at'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.							
A.M																	
1			SW	1		29.84	82	84	82		bc	Cum Nimb	2	L			
2			"	1		29.86	82	84	82		"	"	6	"			
3			ENE	1		29.85	82	84	82		"	"	4	"			
4			"	1		29.87	82	84	82		"	"	5	"			
5			NE	1		29.86	80	82	84		"	"	2	"			
6			N	1		29.85	79	81	80		"	"	0	"			
7			NNW	1		29.86	80	81	80		or	"	0	"			
8			NW	1		29.85	80	82	80		bc	"	0	"			
9			"	1		29.87	82	83	82		"	Cir Cum	4	"			
10			"	1		29.88	83	85	83		"	"	5	"			
11	Underway		"	1		29.87	83	86	83		"	"	3	"			
Noon		WSW	SW	1		29.85	84	87	84		"	"	3	"			
Distance run by Log since preceding Noon											knots	fathoms.					
Latitude by D. R. at Noon											o	'	"				
Longitude by D. R. at Noon											o	'	"				
Latitude by Observations at Noon ⊕											o	'	"				
Longitude by Chronometer from Forenoon Observations ⊕											o	'	"				
Current during the time											knots	fms. per hour, setting to the					
Variation of the Compass by Amplitude ⊕ observed at Sunrise											o	"	"				
Variation of the Compass by Azimuth ⊕ observed at											o	"	"				
Water expended during the preceding 24 hours												250 gallons.					
Water Condensed											during the preceding 24 hours				700	"	
Water remaining on hand fit for me at Noon												2100				"	
Coal consumed during the preceding 24 hours											3	tons	2080	lbs.			
Coal remaining on hand at Noon											116	"	1155	"			
P.M.																	
1	5 4 2 4 2 0	w by s w by n 1/4 n "	SW	1		29.82	84	86	84		bc	Cir Cum	4	L			
2	4 0 2 0	w by n 3/4 n wnw	"	1		29.80	84	85	84		"	"	3	"			
3			"	1		29.80	83	85	83		"	"	3	"			
4	At Anchor		"	1		29.79	83	85	83		"	"	2	"			
5			SSW	1		85	85	85	83		o	"	0	"			
6			"	2		29.82	85	85	83		"	"	0	"			
7			"	2		29.84	84	85	83		bcp	"	4	"			
8			"	2		29.86	84	85	83		o	"	0	"			
9			"	2		29.87	84	85	83		ortl	"	0	"			
10			"	1		29.88	83	85	83		orl	"	0	"			
11			"	1		29.88	83	85	83		or	"	0	"			
Mid.			"	1		29.88	83	85	83		op	"	0	"			
Longitude by Chronometer from Afternoon Observations ⊕											o	'	"				
Longitude by Chronometer Observations]											o	'	"				
Variation of the Compass by Amplitude											observed at Sunset				o	'	"
Variation of the Compass by											at				o	'	"

under the command of Commander Winfield Scott Schley, U. S. Navy.
Thursday November 15th, 1877.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Cloudy. Pleasant. Light variable airs. Fires banked in four boilers. Steam pressure 25 lbs. Distilling.

(Signed) Charles B. T. Moore
Ensign.

From 4 to 8 A.M. Cloudy and pleasant. Light airs from N. and W. Sent boat ashore with Marshal of Cape Palmas, and Mr Allison the interpreter. Fires banked in four boilers. Steam pressure 25 lbs. Distilling.

(Signed) James K. Cogswell
Lieut.

From 8 to Merid. Partially cloudy. Pleasant. Light airs from N. and W. shifting to S. and W. At 9.15 inspected at quarters. At 10.45 brought to on port chain, and at 11, called all hands up anchor, hove up, and stood out from Tabou. Draught forward 13 feet 10 in. Amidships 14 feet 10 in. Aft 15 feet 11 in. Steaming with four boilers. At 12, changed course to W. by S.

(Signed) Clinton K. Curtis
Lieut.

From Merid. to 4 P.M. Clear. Warm. Light S. W. airs. Steaming up coast for Palmas. At 2.50 came to off Cape Palmas in 6 1/2 fathoms water, veering to 45 fathoms port chain. Draught forward 13 feet 10 in. Amidships 14 feet 10 in. Aft 15 feet 11 in. Bearings at anchor. Light House bore (pc) S. E. 3/4 E. distant 1 1/2 miles. Hauled fires in two boilers. Superintendent and Marshal of Maryland County. Interpreter and attendant left the ship. At 3.45 commenced distilling. Fires banked in two boilers. Steam pressure 25 lbs.

(Signed) Samuel C. Lemly
Ensign.

From 4 to 8 P.M. Overcast, passing showers. Light breeze from S. S. W. By order of Commanding Officer, Herman Frankentine (2.C.F.) was confined in double irons, for refusing and neglecting duty. Fires banked in two boilers. Distilling.

(Signed) Charles B. T. Moore
Ensign.

From 8 to Midnight. Cloudy. Frequent passing showers, thunder and lightening to N. Light airs from S. and W.

(Signed) Clinton K. Curtis
Lieut.

(Signed) Asa Walker,
Lieut
Navigator.

Examined and found to be correct

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Cape Palmas, Liberia

Hour.	Knots Fathoms.	WINDS.		Leeway.	BAROMETER.		TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
		Courses steered.	Direction.	Force.	Height in inches.	Ther. at't'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A.M														
1			SW	1	29.86	82	84	82		torl	Nimb	0	L	
2			"	1	29.86	81	83	81		"	"	0	"	
3			"	1	29.84	80	82	80		"	"	0	"	
4			"	1	29.82	80	82	80		"	"	0	"	
5			NE	1	29.83	80	82	80		ol	"	0	"	
6			"	1	29.85	80	82	80		"	Cum Nimb	0	"	
7			NNW	1	29.86	80	82	80		bcp	"	3	"	
8			"	1	29.87	80	82	80		o	"	0	"	
9			NW	1	29.87	80	82	80		"	"	0	"	
10			"	1	29.88	80	82	81		or	"	0	"	
11			Calm	0	29.87	80	82	81		o	"	0	"	
Noon			ENE	1	29.85	80	82	80		"	"	0	"	

Distance run by Log since preceding Noon

knots fathoms.

Latitude by D. R. at Noon

o ' "

Longitude by D. R. at Noon

o ' "

Latitude by Observations at Noon ⊕

o ' "

Longitude by Chronometer from Forenoon Observations ⊕

o ' "

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊕ observed at Sunrise

o " "

Variation of the Compass by Azimuth ⊕ observed at

o " "

Water expended during the preceding 24 hours

250 gallons.

Water Condensed during the preceding 24 hours

900 "

Water remaining on hand fit for me at Noon

2700 "

Coal consumed during the preceding 24 hours

1 tons 1540 lbs.

Coal remaining on hand at Noon

114 " 1855 "

P.M.

1		ENE	1	29.85	82	83	82		o	Cum Nimb	0	L	
2		NNW	1	29.87	82	84	82		"	"	0	"	
3		SW	1	29.89	83	84	82		bc	"	1	"	
4		"	1	29.89	83	84	82		"	"	1	"	
5		"	1	29.88	83	84	82		"	Cir Cum	3	"	
6		"	1	29.87	82	84	82		"	"	3	"	
7		"	1	29.87	81	83	82		"	"	3	"	
8		"	1	29.87	80	83	82		"	"	4	"	
9		"	1	29.87	80	83	82		"	"	4	"	
10		NE	1	29.87	80	83	82		"	"	4	"	
11		N	1	29.88	81	83	82		"	"	5	"	
Mid.		NE	2	29.88	81	83	82		"	"	6	"	

Longitude by Chronometer from Afternoon Observations ⊕

o ' "

Longitude by Chronometer Observations

o ' "

Variation of the Compass by Amplitude observed at Sunset

o ' "

Variation of the Compass by at

o ' "

under the command of Commander Winfield Scott Schley, U. S. Navy.
Friday November 16th, 1877.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Overcast. Rainy. Light S. W. airs. Fires banked in two boilers.
Steam pressure 30 lbs. Distilling.

(Signed) Samuel C. Lemly
Ensign.

From 4 to 8 A.M. Overcast. Passing shower. Lightening. Light variable airs. Fires banked in two
boilers. Distilling.

(Signed) Charles B. T. Moore
Ensign.

From 8 to Merid. Cloudy and warm. Calm. Variable airs. At 9.15 exercised at fire quarters. Cast
loose in 1 m 55 s. Secured in 1 m 40 s. An English steamer came in and anchored. Fires
banked in two boilers. Boarded English steamer and sent mail to United States.

(Signed) James K. Cogswell
Lieut.

From Merid. to 4 P.M. Cloudy. Warm. Light variable airs. Barometer rising. British steamer
"Borling" left the harbor.

(Signed) Clinton K. Curtis
Lieut.

From 4 to 8 P.M. Partially clear. Pleasant. Light S. W. airs. Cir. Cum. clouds. Fires banked in
two boilers. Steam pressure 30 lbs. Distilling.

(Signed) Samuel C. Lemly
Ensign.

From 8 to Midnight. Cloudy. Pleasant. Light variable airs. Fires banked in two boilers. Steam
pressure 25 lbs. Distilling.

(Signed) James K. Cogswell
Lieut.

(Signed) Asa Walker,
Lieut
Navigator.

Examined and found to be correct

under the command of Commander Winfield Scott Schley, U. S. Navy.
Saturday November 17th, 1877.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Partially cloudy. Light airs from N. and E. Barometer falling. Fires banked in two boilers. Distiller in operation.

(Signed) Clinton K. Curtis
Lieut.

From 4 to 8 A.M. Clear. Warm. Calm and light airs. Cir. Cum. clouds. Made preparations for sea. At 6, stopped distiller and spread fires. Bent light sails. At 7.45 brought to port chain and hove in to 15 fathoms. Steam pressure 25 lbs.

(Signed) Charles B. T. Moore
Ensign.

From 8 to Merid. Clear. Warm. Light airs from S. E. At 8.10 got underway. Steaming with four boilers. At 9, took departure Cape Palmas bearing (pc) N. 1/4 E. distant 4 1/2 miles. Draught forward 13 feet 9 1/2 in. Amidships 14 ft. 10 in. Aft 15 feet 11 in. At 10.15 set main set main trysail. Steam pressure 61 lbs. Rev. 18.

(Signed) Charles B. T. Moore
Ensign.

From Merid. to 4 P.M. Cloudy and warm. Light breeze from S. and W. At 2, crossed light yards and made sail to top gallant sails. At 3.15 set royals. Steaming with four boilers. Steam pressure 60 lbs. Revolutions 50.

(Signed) James K. Cogswell
Lieut.

From 4 to 6 P.M. Partially cloudy. Rain squalls last hour. Light breeze from S. and E. At 5.30 took in royals and flying jib. Steaming with four boilers. Steam pressure 60 lbs. Revolutions 49.

(Signed) Clinton K. Curtis
Lieut.

From 6 to 8 P.M. Partially clear. Pleasant. Passing showers. Moderate S[outher]ly breeze. Cum. Nimb. clouds. Lightening to N. and E. Steaming with four boilers. Steam pressure 55 lbs. Revolutions 45.

(Signed) Samuel C. Lemly
Ensign.

From 8 to Midnight. Cloudy, pleasant first part. Moderate S[outher]ly breeze. Wind hauling, took in all sail at 11.30. At 11.40 struck by a heavy squall from E. Steaming with four boilers. Steam pressure 60 lbs.

(Signed) Charles B. T. Moore
Ensign.

(Signed) Asa Walker,
Lieut
Navigator.

Examined and found to be correct

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns,
At Sea.

Hour.	Knots Fathoms.			WINDS.			BAROMETER.		TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
				Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. at'd.	Air Dry Bulb.	Air Wet Bulb.					
A.M																
1	4	2		ESE	NE	3	29.87	78	78	76	84	or	Nimb	0	M	
2	6	0		"	"	3	29.84	79	78	76	84	"	"	0	"	
3	6	4		"	"	3	29.82	77	78	76	83	"	"	0	"	
4	6	6		"	E by N	2	29.83	77	79	78	83	"	"	0	"	
5	7	0		"	"	1-2	29.83	77	79	78	83	bc	"	1	"	
6	6	4		"	E by S	1	29.85	79	81	79	83	"	Cir Cum	1	"	Head sails, main
7	7	0		"	S	1	29.87	81	82	80	84	"	"	3	"	trysail and spanker.
8	7	0		"	"	1	29.88	81	82	81	84	"	"	4	"	"
9	7	4		"	SSE	1	29.89	81	83	81	84	"	"	4	S	"
10	7	2		"	"	1	29.89	81	84	81	84	"	"	6	"	"
11	7	2		"	"	1	29.89	81	85	82	84	"	"	6	"	"
Noon	6	4		"	"	1	29.87	82	85	82	84	"	"	6	"	

Distance run by Log since preceding Noon

182 knots

6 fathoms.

Latitude by D. R. at Noon

3 0 59 ' 12 " N.

Longitude by D. R. at Noon

4 ° 17 ' 00 " W.

Latitude by Observations at Noon ⊕

4 ° 10 ' 00 " N.

Longitude by Chronometer from Forenoon Observations ⊕

4 ° 10 ' 30 " W.

Current during the time	0	knots	4	fms. per hour, setting to the	N. E. by N.
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0 “

Variation of the Compass by Amplitude \oplus observed at Sunrise

Variation of the Compass by Azimuth \oplus observed at 7.40 A.M.

20 0 40 " 00 " W.

Water expended during the preceding 24 hours

250 gallons.

Water during the preceding 24 hours

66

Water remaining on hand fit for me at Noon

2400

Coal consumed during the preceding 24 hours

8 tons 186 lbs.

Coal remaining on hand at Noon

99 “ 1981 ”

P.M.

1	7	2	ESE	SE by S	1	29.84	84	86	82	84	bc	Cir Cum	7	S	Head sail, main
2	7	0	"	"	1	29.82	84	86	83	84	"	"	4	"	try sail and spanker.
3	6	6	"	"	1	29.80	84	85	83	84	"	"	8	"	"
4	6	6	"	"	1	29.81	84	85	83	84	"	"	5	"	"
5	7	0	"	"	1	29.82	84	85	82	84	"	"	1	"	"
6	7	0	"	SE by E	1	29.83	83	85	82	84	"	"	0	L	"
7	7	4	"	"	1	29.85	83	85	82	84	"	"	5	"	"
8	7	4	"	"	1	29.87	83	85	82	84	"	"	7	"	"
9	7	0	"	ESE	1	29.89	83	85	82	84	"	"	6	"	"
10	7	4	"	"	1	29.87	83	85	82	84	"	"	7	"	"
11	7	6	"	SSW	2	29.87	82	83	81	84	"	"	5	"	"
Mid.	7	4	"	S	1	29.86	82	83	82	84	"	"	3	"	"

Longitude by Chronometer from Afternoon Observations ⊕

0 1

Longitude by Chronometer Observations

④ 4

Variation of the Compass by Amplitude observed at Sunset

O **E**

Variation of the Compass by _____ at _____

① ②

under the command of Commander Winfield Scott Schley, U. S. Navy.
Sunday November 18th, 1877.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Overcast and rainy. Moderate breeze from N. and E. Steaming with 4 boilers. Steam pressure 45 lbs. Revolutions 35.

(Signed) James K. Cogswell
Lieut.

From 4 to 8 A.M. Partially cloudy. Pleasant. Light breeze from N. and E. shifting to S. Barometer rising. Steaming with four boilers. At 5.15 set fore and aft sail.

(Signed) Clinton K. Custer
Lieut.

From 8 to Merid. Clear. Warm. Light S. S. E. airs. Cir. Cum. clouds. By order of Commanding Officer, Herman Frankenstein (2.C.F.) was released from confinement. At 9.30 Commanding Officer inspected ship and crew at quarters. Loosed topsails and foresail to day. At 11.40 hauled down and stowed head sail. Steaming under four boilers. Steam pressure 65 lbs. Revolutions 43. Temp. of bunkers 102°.

(Signed) Samuel C. Lemly
Ensign.

From Merid. to 4 P.M. Clear. Warm. Light airs from S. and E. Steaming with four boilers. At 1.20 furled topsails and foresail. At 1.45 sent down light yards. At 3.15 set head sail. Steam pressure 60 lbs. Revolutions 41. Temp of bunkers 106°.

(Signed) James K. Cogswell
Lieut.

From 4 to 6 P.M. Cloudy and warm. Light airs from S. and E. At 5 hauled down head sails and brailed up spanker. Steaming with four boilers. Steam pressure 55 lbs. Revolutions 40.

(Signed) James K. Cogswell
Lieut.

From 6 to 8 P.M. Clear and pleasant. Light airs from S. and E. Barometer rising. Steaming with four boilers. Steam pressure 55 lbs. revolutions 40. Temp. of bunkers 120°.

(Signed) Clinton K. Curtis
Lieut.

From 8 to Midnight. Clear. Pleasant. Bright moonlight. Cir. Cum. Nimb. clouds. At 10.45 breeze sprung up from S. and W, set all fore and aft sail. Steaming with four boilers. Steam pressure 61 lbs. Revolutions 41. Temp. of bunkers 110°.

(Signed) Samuel C. Lemly
Ensign.

(Signed) Asa Walker,
Lieut
Navigator.

Examined and found to be correct

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, At Sea.

Hour.	Knots Fathoms.		WINDS.			BAROMETER.			TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
			Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. at't'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A.M.																
1	7	2	ESE	SSE	2		29.85	83	84	82	83	bc	Cir Cum	4	S	Fore and aft sail.
2	7	4	"	"	2		29.84	83	84	81	83	"	"	5	"	"
3	7	2	"	"	2		29.82	83	84	81	83	"	"	5	"	"
4	7	4	"	S by E	2		29.83	83	84	81	83	"	"	4	"	"
5	7	0	"	SE by S	2		29.84	83	83	80	83	"	"	8	"	"
6	7	0	"	"	3		29.84	82	84	82	85	"	"	1	"	"
7	7	0	"	S	3		29.88	82	84	82	85	"	"	8	"	"
8	7	6	"	"	2		29.89	82	85	82	85	"	"	9	"	"
9	8	0	"	"	2		29.90	83	87	84	85	"	"	7	"	Same, with topsail
10	7	2	"	"	2		29.91	83	87	84	85	"	"	7	"	and foresail.
11	8	0	"	"	2		29.91	84	87	84	85	"	"	7	"	"
Noon	6	2	"	"	2		29.89	84	88	85	85	"	"	7	"	"

Distance run by Log since preceding Noon 174 knots 6 fathoms.

Latitude by D. R. at Noon 3 ° 53 ' 00 " N.

Longitude by D. R. at Noon 1 ° 17 ' 30 " W.

Latitude by Observations at Noon ⊕ 4 ° 04 ' 16 " N.

Longitude by Chronometer from Forenoon Observations ⊕ 1 ° 04 ' 15 " W.

Current during the time 0 knots 6 fms. per hour, setting to the N. E. 1/2 E.

Variation of the Compass by Amplitude ⊕ observed at Sunrise ° " "

Variation of the Compass by Azimuth ⊕ observed at 7.40 A.M. 21 ° 30 " 00 " W.

Water expended during the preceding 24 hours 250 gallons.

Water during the preceding 24 hours "

Water remaining on hand fit for me at Noon 2100 "

Coal consumed during the preceding 24 hours 8 tons 178 lbs.

Coal remaining on hand at Noon 91 " 1803 "

P.M.

1	7	2	ESE	S by W	2		29.87	84	87	84	85	bc	Cir Cum	7	S	Topsails, fore sail
2	7	2	"	SSW	2		29.84	84	87	84	85	"	"	8	"	fore and aft sail.
3	7	4	"	"	2		29.82	84	87	84	85	"	"	8	"	"
4	7	6	"	"	2		29.82	84	87	84	85	"	"	8	"	"
5	7	0	"	S by W	2		29.83	84	86	84	85	"	Cum Nimb	7	"	Fore and aft sail.
6	7	0	"	"	2		29.84	83	85	83	85	"	"	4	"	"
7	7	0	"	"	2		29.85	83	85	82	85	"	"	2	"	"
8	7	0	"	"	2		29.86	83	85	83	85	"	"	3	"	"
9	7	0	"	"	1		29.90	83	85	83	85	"	"	4	"	"
10	7	4	"	"	1		29.90	83	84	81	85	"	"	5	"	"
11	7	4	"	"	1		29.90	82	84	81	85	"	"	5	"	"
Mid.	7	0	"	"	1		29.91	82	84	81	85	"	"	5	"	"

Longitude by Chronometer from Afternoon Observations ⊕ ° ' "

Longitude by Chronometer Observations] ° ' "

Variation of the Compass by Amplitude observed at Sunset ° ' "

Variation of the Compass by at ° ' "

under the command of Commander Winfield Scott Schley, U. S. Navy.
Monday November 19th, 1877.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Cloudy. Moonlight. Light breeze from S. S. E. Steaming with four boilers. Steam pressure 60 lbs. Revolutions 42. Temp. of bunker 104°.

(Signed) Charles B. T. Moore
Ensign.

From 4 to 8 A.M. Clear and warm. Light breeze from S. and E. At 8 set foresail. Steaming with four boilers. Steam pressure 55 lbs. Revolutions 44.

(Signed) James K. Cogswell
Lieut.

From 8 to Merid. Clear. Warm. Pleasant. Light breeze from S. Steaming with four boilers. At 8.15 set topsails and foresail. At 9.15 exercised at general quarters. Steam pressure 55 lbs. Revolutions 42.

(Signed) Clinton K. Curtis
Lieut.

From Merid. to 4 P.M. Clear. Warm. Light S. S. W. breeze. Cir. Cum. clouds. Steaming with four boilers. Steam pressure 60 lbs. Revolutions 40.

(Signed) Samuel C. Lemly
Ensign.

From 4 to 6 P.M. Clear. Warm. Light breeze from S. by W. Steaming with four boilers. At 5.50 took in and furled topsail and foresail.

(Signed) Charles B. T. Moore
Ensign.

From 6 to 8 P.M. Cloudy and warm. Gentle breeze from S. and W. Steaming with four boilers. Steam pressure 55 lbs. Revolutions 38.

(Signed) James K. Cogswell
Lieut.

From 8 to Midnight. Clear and pleasant. Light airs from S. and W. Steam pressure 58 lbs. Revolutions 41. Temp. of bunkers 106°. Steaming with four boilers.

(Signed) Clinton K. Curtis
Lieut.

(Signed) Asa Walker,
Lieut
Navigator.

Examined and found to be correct

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, At Sea.

Hour.	Knots Fathoms.		WINDS.			BAROMETER.			TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
			Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. at't'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A.M.																
1	7	2	ESE	SSW	1-2		29.86	82	84	82	84	bc	Cir Cum	6	S	Fore and aft sail
2	8	0	"	"	2		29.84	82	84	82	84	"	"	7	"	and foresail.
3	7	4	"	SW	2		29.82	82	84	82	84	"	"	7	"	"
4	7	2	"	"	2		29.82	82	84	82	84	"	"	7	"	"
5	7	0	"	"	2		29.84	82	84	82	84	"	"	6	"	"
6	7	0	"	"	2		29.85	82	84	82	84	"	"	5	"	"
7	7	2	"	"	2		29.87	82	84	82	84	"	"	2	"	"
8	7	2	"	"	2		29.88	82	84	82	84	"	"	2	"	"
9	7	6	"	S	3		29.89	80	85	83	84	"	"	2	"	"
10	8	2	"	"	3		29.89	80	83	81	84	"	"	0	"	"
11	7	6	"	"	3		29.87	80	85	83	84	"	"	1	"	"
Noon	6	0	"	SW by S	3		29.86	82	85	85	84	"	"	0	"	Topsails and T. G. sails.

Distance run by Log since preceding Noon	174 knots	6 fathoms.
Latitude by D. R. at Noon	3 °	47 ' 16 " N.
Longitude by D. R. at Noon	1 °	49 ' 00 " E.
Latitude by Observations at Noon ⊕	4 °	06 ' 13 " N.
Longitude by Chronometer from Forenoon Observations ⊕	2 °	16 ' 15 " E.
Current during the time 1 knots 4 fms. per hour, setting to the N. E. by E.		
Variation of the Compass by Amplitude ⊕ observed at Sunrise	°	" "
Variation of the Compass by Azimuth ⊕ observed at 7.40 A.M.	21 °	00 " 00 " W.
Water expended during the preceding 24 hours		250 gallons.
Water during the preceding 24 hours		"
Water remaining on hand fit for me at Noon		1800 "
Coal consumed during the preceding 24 hours	8 tons	330 lbs.
Coal remaining on hand at Noon	83 "	1473 "

P.M.																
1	1	4	ESE SE by E 1/2 E	SW by S	1		29.84	83	86	84	84	bc	Cum	1	S	Fore and aft sail,
2	7	6	"	"	1		29.80	83	86	84	84	"	"	2	"	foresail, topsails and
3	7	6	"	"	1-2		29.80	83	86	83	84	o	Cum Nimb	0	"	T. G. sails.
4	7	0	"	"	1-2		29.79	83	86	83	84	"	"	0	"	"
5	7	4	"	S by W	3		29.80	81	84	82	84	bc	"	1	"	Same, except foresail.
6	7	6	"	"	3		29.80	81	84	82	84	"	"	1	"	"
7	8	0	"	"	3		29.85	81	83	81	84	"	"	1	"	"
8	7	4	"	"	3		29.85	81	83	81	84	"	"	1	"	"
9	7	0	"	"	3		29.85	81	83	81	84	o	"	0	"	"
10	7	0	"	"	3		29.84	81	83	81	84	"	"	0	"	"
11	7	0	"	"	3		29.84	81	83	81	84	bc	"	3	"	"
Mid.	7	6	"	"	3		29.83	81	83	81	84	"	"	1	"	"

Longitude by Chronometer from Afternoon Observations ⊕	°	'	"
Longitude by Chronometer Observations]	°	'	"
Variation of the Compass by Amplitude observed at Sunset	°	'	"
Variation of the Compass by at	°	'	"

under the command of Commander Winfield Scott Schley, U. S. Navy.
Tuesday November 20th, 1877.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear. Pleasant. Light S. W. breeze. Cir. Cum. clouds. Bright moonlight. At 3, set foresail. Steaming with four boilers. Steam pressure 60 lbs. Revolutions 40. Temp. of bunkers 110°.

(Signed) Samuel C. Lemly
Ensign.

From 4 to 8 A.M. Cloudy. Pleasant. Light breeze from S. W. Steaming with four boilers. At 5.40 sighted an English bark standing to S. and E. Exchanged colors. Steam pressure 55 lbs. Revolutions 40.

(Signed) Charles B. T. Moore
Ensign.

From 8 to Merid. Cloudy and warm. Gentle breeze from S. and W. At 9.15 inspected at quarters. Drilled crew in the manual of small arms. At 10, T. G. yards made sail to T. G. sails. Steaming with four boilers. Steam pressure 65 lbs. Revolutions 41.

(Signed) James K. Cogswell
Lieut.

From Merid. to 4 P.M. Cloudy. Warm. Light breeze from S. and W. Barometer falling. Steaming with four boilers. Steam pressure 55 lbs. Revolutions 40.

(Signed) Clinton K. Curtis
Lieut.

From 4 to 6 P.M. Overcast, slight sprinkling of rain. Cum. Nimb. clouds. At 4.15, wind hauling, took in T. G. sails and foresail and braced up. Steaming with four boilers. Steam pressure 60 lbs. Revolutions 40.

(Signed) Samuel C. Lemly
Ensign.

From 6 to 8 P.M. Cloudy. Pleasant. Light breeze from S. and W. Steaming with four boilers. At 7.40 hauled down flying jib. Steam pressure 60 lbs. Revolutions 41.

(Signed) Charles C. Lemly
Ensign.

From 8 to Midnight. Cloudy and pleasant. Light breeze from S. and W. At 10.15 exercised at general quarters. Time in casting loose, as follows. Eng. Div. 1 m 45 s. Marine Guard 3 m. Surgeons Div. 3 m 45 s. Nav. Div. 4 m. Powder Div. 5 m 20 s. 2nd Div. 5 m 45 s. 1st Div 7 m 20 s.

(Signed) James K. Cogswell
Lieut.

(Signed) Asa Walker,
Lieut
Navigator.

Examined and found to be correct

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, At Sea.

Hour.	Knots Fathoms.		Courses steered.	WINDS.		Leeway.	BAROMETER.		TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
				Direction.	Force.		Height in inches.	Ther. at'rd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A.M																
1	7	4	SE by E 1/2 E	SSW	2		29.84	81	83	81	84	bc	Cum Nimb	2	S	Topsails, jib, F. T. M. S. S.
2	8	0	"	"	1-2		29.82	81	83	81	84	"	"	2	"	"
3	8	0	"	"	2		29.81	81	84	82	84	"	"	2	"	"
4	8	2	"	"	2		29.80	81	84	82	84	"	"	2	"	All plain sail,
5	7	0	"	"	2		29.80	81	83	82	84	bcp	"	2	"	M. try sail.
6	7	2	"	"	2		29.81	81	84	82	84	bc	"	3	"	"
7	7	2	"	"	2		29.83	81	84	82	84	"	"	3	"	"
8	7	6	"	"	2		29.84	82	84	82	84	"	"	3	"	"
9	8	4	"	"	3		29.86	82	84	82	84	"	"	1	"	Topsails, foresails,
10	8	4	"	"	3		29.86	82	85	83	84	"	"	3	"	fore and aft sail.
11	7	4	"	S by W	2		29.84	82	85	83	84	"	"	4	"	"
Noon	5	6	"	"	2		29.83	82	85	83	84	"	"	5	"	"

Distance run by Log since preceding Noon

179 knots

6 fathoms

Latitude by D. R. at Noon

3 ° 31 " N.

Longitude by D. R. at Noon

5 ° 12 ' 30 " E.

Latitude by Observations at Noon ⊕

3 ° 19 ' 35 " N.

Longitude by Chronometer from Forenoon Observations ⊕

5 ° 39 ' 45 " E.

Current during the time 1 knots 2 fms. per hour, setting to the E. S. E.

Variation of the Compass by Amplitude ⊕ observed at Sunrise

° " "

Variation of the Compass by Azimuth ⊕ observed at 7.40 A.M.

20 ° 00 " 00 " W.

Water expended during the preceding 24 hours

300 gallons.

Water

during the preceding 24 hours

"

Water remaining on hand fit for me at Noon

1400 "

Coal consumed during the preceding 24 hours

8 tons 750 lbs.

Coal remaining on hand at Noon

75 " 723 "

P.M.

1	1	4	ESE	SSW	3		29.81	83	85	83	84	bc	Cir Cum	7	S	Topsails, fore sail,
	6	4	ESE 3/4 E													
2	8	0	"	"	3		29.80	83	85	83	84	"	"	8	"	fore and aft sail.
3	8	0	"	S by W	3		29.77	83	85	83	84	"	"	5	"	"
4	8	0	"	"	3		29.77	83	85	83	84	"	"	2	"	"
5	7	4	"	"	2		29.77	83	85	83	84	"	"	3	"	"
6	7	0	"	"	2		29.83	83	85	83	84	"	"	4	"	"
7	7	0	"	SSW	1-2		29.85	81	84	82	84	"	"	5	"	Spanker, M. try sail
8	7	0	"	"	1-2		29.87	81	84	82	84	"	"	5	"	jib, F. T. M. S. S.
9	7	0	"	"	1		29.87	81	84	82	84	"	"	4	"	"
10	7	2	"	ENE	1		29.85	81	84	82	84	"	"	3	"	"
11	6	4	"	SSW	1		29.85	81	84	82	84	"	"	4	"	"
Mid.	7	2	"	S by W	1		29.85	81	84	82	84	"	"	5	"	"

Longitude by Chronometer from Afternoon Observations ⊕

° ' "

Longitude by Chronometer Observations

° ' "

Variation of the Compass by Amplitude

° ' "

Variation of the Compass by

°

under the command of Commander Winfield Scott Schley, U. S. Navy.
Wednesday November 21st, 1877.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Partially cloudy. Pleasant. Bright moonlight. Barometer falling. Light breeze from S. S. W. Steaming with four boilers. Steam pressure 65 lbs. Revolutions 42. At 1.30 came up with, and passed close aboard, a full rigged brig standing to S. and E.

(Signed) Clinton K. Curtis
Lieut.

From 4 to 8 A.M. Partially clear. Pleasant. Light S. S. W. breeze. Cum. Nimb. Passed a bark, showing no lights, standing to S. At 7.30 set T. G. sails, foresail and flying jib. At 8, crossed royal yards. Steaming with four boilers. Steam pressure 55 lbs. Revolutions 41.

(Signed) Samuel C. Lemly
Ensign.

From 8 to Merid. Cloudy. Warm. Light breeze from S. and W. At 8.10 set royals. At 9.15 inspected at quarters. Exercised 1st and 2nd Divisions at great guns. At 10.45 took in royals. At 11, took in top gallant sails. Standing with four boilers. Steam pressure 60 lbs. Revolutions 41. Temp of bunkers 106°. At 12, changed course to E. S. E.

(Signed) Charles B. T. Moore
Ensign.

From Merid. to 4 P.M. Cloudy. Warm. Light breeze from S. and W. Steaming with four boilers. Steam pressure 65 lbs. Revolutions 42.

(Signed) James K. Cogswell
Lieut.

From 4 to 6 P.M. Partially cloudy. Pleasant. Light breeze from S. and W. Steaming with four boilers. At 5.40 took in and furled topsails and foresail, hauled down flying jib. Steam pressure 55 lbs. Revolutions 39.

(Signed) Clinton K. Curtis
Lieut.

From 6 to 8 P.M. Partially clear. Pleasant. Light S. S. W. breeze. Cir. Cum. clouds. Moon rose at 6.15. Steaming with four boilers. Steam pressure 55 lbs. Revolutions 40. Temp. of bunkers 104°.

(Signed) Samuel C. Lemly
Ensign.

From 8 to Midnight. Cloudy. Pleasant. Moonlight. Light variable airs. At 10.30 took in head sails and spanker. At 10, got cast of deep sea lead, no bottom at 85 fathoms. At 12, got cast, no bottom at 100 fathoms. Steaming with four boilers. Steam pressure 60 lbs. Revolutions 42.

(Signed) Charles B. T. Moore
Ensign.

Examined and found to be correct

(Signed) Asa Walker, Lieut
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, At Sea

		WINDS.				BAROMETER.		TEMPERATURE.				State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.	
Hour.	Knots Fathoms.	Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. at'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.							
A.M																	
1	6	6	ESE 3/4 E	S	2		29.82	83	83	82	84	bcl	Cir Cum	1	S	Main try sail.	
2	6	4	"	S by E	1		29.82	83	83	82	84	ol	"	0	"	"	
3	6	6	"	WSW	1		29.81	83	84	83	84	bcl	"	1	"	"	
4	6	6	"	"	1		29.80	83	84	83	84	ol	"	0	"	"	
5	6	6	"	"	1		29.83	83	84	83	84	bcl	Cum Nimb	0	"	"	
6	3	0	E by S	"	1		29.83	83	84	83	84	bc	"	2	"	"	
3	6																
7	7	4	"	E	1		29.84	83	84	83	84	"	"	3	"		
8	7	0	"	"	1		29.86	83	84	83	84	"	"	1	"		
2	4																
9	3	0	E 1/4 N	"	1		29.88	84	87	84	84	"	"	5	"		
6	2																
10	8	6	ENE NE by E 3/4 E	E	1		29.89	85	88	86	84	"	"	6	"		
11	8	2	"	"	1		29.85	85	88	86	84	"	"	6	"		
Noon	7	6	"	Variable	1		29.85	86	88	86	84	"	"	6	"	"	
Distance run by Log since preceding Noon												knots	fathoms.				
Latitude by D. R. at Noon												o	'	"			
Longitude by D. R. at Noon												o	'	"			
Latitude by Observations at Noon ⊕												o	'	"			
Longitude by Chronometer from Forenoon Observations ⊕												o	'	"			
Current during the time												knots	fms. per hour, setting to the				
Variation of the Compass by Amplitude ⊕ observed at Sunrise												o	'	"			
Variation of the Compass by Azimuth ⊕ observed at												o	'	"			
Water expended during the preceding 24 hours												250 gallons.					
Water												during the preceding 24 hours					
Water remaining on hand fit for me at Noon												1100					
Coal consumed during the preceding 24 hours												5	tons	2230	lbs.		
Coal remaining on hand at Noon												69	"	733	"		
P.M																	
1	Standing in for Port Clarence		NE	1			29.83	86	88	85		bc	Cir Cum	4	S		
2			ESE	1			29.82	86	89	85		"	"	5	"		
3			NNW	1			29.80	86	89	86		"	"	4	"		
4	At Anchor		"	1			29.78	86	89	87		"	"	3	"		
5			N	1			29.80	85	88	86		o	"	0	"		
6			"	1			29.81	85	87	85		bc	"	2	"		
7			Calm	0			29.82	85	86	84		bcl	"	8	"		
8			"	0			29.84	85	86	84		bc	"	7	"		
9			S	1			29.83	84	86	84		"	"	7	"		
10			"	1			29.84	83	85	83		"	"	7	"		
11			"	1			29.86	82	84	83		"	"	7	"		
Mid.			"	1			29.87	82	84	82		"	"	5	"		
Longitude by Chronometer from Afternoon Observations ⊕												o	'	"			
Longitude by Chronometer Observations												o	'	"			
Variation of the Compass by Amplitude												o	'	"			
Variation of the Compass by												o	'	"			

under the command of Commander Winfield Scott Schley, U. S. Navy.
Thursday November 22nd, 1877.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Cloudy and pleasant. Light airs from S. and W. Took soundings every hour, no bottom at 95 fathoms. Steaming with four boilers. Steam pressure 55 lbs. Revolutions 40.

(Signed) James K. Cogswell
Lieut.

From 4 to 8 A.M. Cloudy. Pleasant. Light airs from S. and W, shifting to E. Barometer rising slowly. At 5.30 changed course to E. by S. At 5.40 sighted high land ahead and on starboard bow. Changed course at 5, to E. 1/2 S. and at 7.48 to E. 1/4 N. Steaming with four boilers. Steam pressure 55 lbs. Revolutions 40. Temp. of bunkers 106°.

(Signed) Clinton K. Curtis
Lieut.

From 8 to Merid. Cloudy. Warm. Light variable airs. Cir. Cum. clouds. Standing in for Fernado Po. Engaged in getting ship ready for port. Steaming with four boilers. Steam pressure 60 lbs. Revolutions 49.

(Signed) Samuel C. Lemly
Ensign.

From Merid. to 4 P.M. Cloudy. Warm. Light variable airs. Standing in for Port Clarence. At 1.55 came to anchor in 12 fathoms water, veering to 30 fathoms port chain. Draught forward 13 feet 6 in. Amidships 14 feet 7 in. Aft 15 feet 8 in. Hauled fires in two boilers. At 2.50 commenced distilling. Fires banked in two boilers. Steam pressure 25 lbs. Distilling.

(Signed) Charles B. T. Moore
Ensign.

From 4 to 8 P.M. Cloudy and warm. Calm and light airs. Fires banked in two boilers. Steam pressure 25 lbs. Distilling.

(Signed) James K. Cogswell
Lieut.

From 8 to Midnight. Clear and pleasant. Light land breeze. Cir. Cum. clouds. Bright moonlight. Fires banked in two boilers. Steam pressure 25 lbs. Distilling.

(Signed) Clinton K. Curtis
Lieut.

(Signed) Asa Walker,
Lieut
Navigator.

Examined and found to be correct

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Port Clarence, Fernando Po.

		WINDS.		BAROMETER.			TEMPERATURE.			State of the Weather by symbols.		Forms of Clouds, by symbols.		Prop. of Clear Sky, in 10ths.		State of the Sea.		Record of the sail the vessel is under at end of watch.				
Hour.	Knots Fathoms.	Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. at'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.												
A.M																						
1			Calm	0		29.85	81	83	81		bcl	Cir Cum	8		S							
2			S	1		29.83	81	83	80		"	"	7		"							
3			"	1		29.83	81	82	80		"	Cum Nimb	2		"							
4			"	1		29.82	81	82	80		bclt	"	3		"							
5			SW	1		29.83	81	82	80		olt	"	0		"							
6			"	1		29.84	81	82	80		"	"	0		"							
7			"	1		29.85	80	82	80		"	"	0		"							
8			"	1		29.86	80	82	80		orit	"	0		"							
9			S	1		29.86	80	82	80		"	"	0		"							
10			SSE	1		29.88	80	82	80		"	"	0		"							
11			"	1-4		29.87	80	82	80		torq	"	0		"							
Noon			SE	1		29.86	80	81	80		bcr	"	1		"							
Distance run by Log since preceding Noon																			knots	fathoms.		
Latitude by D. R. at Noon																			o	'	"	
Longitude by D. R. at Noon																			o	'	"	
Latitude by Observations at Noon ⊕																			o	'	"	
Longitude by Chronometer from Forenoon Observations ⊕																			o	'	"	
Current during the time																			knots	fms. per hour, setting to the		
Variation of the Compass by Amplitude ⊕ observed at Sunrise																			o	"	"	
Variation of the Compass by Azimuth ⊕ observed at																			o	"	"	
Water expended during the preceding 24 hours																			250 gallons.			
Water Condensed																			400 "			
Water remaining on hand fit for me at Noon																			1200 "			
Coal consumed during the preceding 24 hours																			1	tons	1850	lbs.
Coal remaining on hand at Noon																			67	"	1123	"
P.M.																						
1			NE	1		29.86	80	83	81		o	Cum Nimb	2		S							
2			"	1		29.86	81	84	82		"	"	2		"							
3			SSE	1		29.84	82	85	83		"	"	2		"							
4			SW	1		29.84	82	84	83		"	"	2		"							
5			"	1		29.83	81	83	81		op	"	0		"							
6			"	1		29.82	81	83	81		"	"	0		"							
7			"	1		29.81	81	82	80		o	"	0		"							
8			"	1		29.82	81	82	80		"	"	0		"							
9			"	1		29.83	81	83	81		op	"	0		"							
10			"	1		29.85	81	83	81		"	"	0		"							
11			"	1		29.85	81	83	81		o	"	0		"							
Mid.			"	1		29.85	81	83	81		"	"	0		"							
Longitude by Chronometer from Afternoon Observations ⊕																			o	'	"	
Longitude by Chronometer Observations																			o	'	"	
Variation of the Compass by Amplitude																			o	'	"	
Variation of the Compass by																			o	'	"	

under the command of Commander Winfield Scott Schley, U. S. Navy.
Friday November 23rd, 1877.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear first part. Cloudy last two hours. Moonlight. Lightening around horizon. Calm and light airs from S. Fires banked in two boilers. Steam pressure 30 lbs. Distilling.

(Signed) Charles B. T. Moore
Ensign.

From 4 to 8 A.M. Cloudy and pleasant. Rainy last hour of watch. With thunder and lightening. Light airs from S. and W. Fires banked in two boilers. Steam pressure 25 lbs. Distilling.

(Signed) James K. Cogswell
Lieut.

From 8 to Merid. Overcast. Heavy rain during entire watch, with much thunder and lightening. Cum. Nim. Clouds. Light S. E. breeze. By order of Commanding Officer, W. G. Norwood (O.S.) and John W. Powers (O.S.) were rated seamen, and James Gillespie (O.S.2.C.) rated O. Seaman from Nov. 1st. Commanding Officer and staff left the ship on a visit to the Governor. Fires banked in two boilers. Steam pressure 25 lbs. Distilling.

(Signed) Clinton K. Curtis
Lieut.

From Merid. to 4 P.M. Overcast and cloudy, with light S. W. breeze. Sent coaling party of 19 kroomen [crewmen] to fill lighter with U. S. Government coal. Fires banked in two boilers. Av. Steam pressure 25 lbs. Distilling.

(Signed) Samuel C. Lemly
Ensign.

From 4 to 8 P.M. Overcast. Passing showers first part. Light airs from S. W. By order of Commanding Officer, Irwin Winbush (W.O.S.) and W. H. Rich (Lds) were confined, without irons, for intoxication. Coaling ship. Fires banked in two boilers. Steam pressure 25 lbs. Distilling.

(Signed) Charles B. T. Moore
Ensign.

From 8 to Midnight. Cloudy. Passing showers first part. Light airs from S. W. Barometer rising.

(Signed) Clinton K. Curtis
Lieut.

(Signed) Asa Walker,
Lieut
Navigator.

Examined and found to be correct

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Port Clarence, Fernando Po.

Hour.	Knots Fathoms.	WINDS.		Leeway.	BAROMETER.		TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
		Courses steered.	Direction.	Force.	Height in inches.	Ther. at't'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A.M														
1			S	1	29.93	80	81	81		or	Cum Nimb	0	S	
2			"	1	29.90	79	81	80		"	"	0	"	
3			"	1	29.86	79	81	80		bc	"	1	"	
4			"	1	29.83	79	81	80		"	"	1	"	
5			SSW	1	29.84	80	81	80		"	"	1	"	
6			"	1	29.85	80	81	80		o	"	0	"	
7			Calm	0	29.86	80	82	81		bc	"	3	"	
8			"	0	29.88	80	82	81		"	"	1	"	
9			E	1	29.88	81	82	81		o	"	0	"	
10			"	1	29.89	81	83	82		"	"	0	"	
11			NE	1	29.87	82	84	82		"	"	0	"	
Noon			N	1	29.86	83	85	83		"	"	0	"	

Distance run by Log since preceding Noon

knots fathoms.

Latitude by D. R. at Noon

° ' "

Longitude by D. R. at Noon

° ' "

Latitude by Observations at Noon ⊕

° ' "

Longitude by Chronometer from Forenoon Observations ⊕

° ' "

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊕ observed at Sunrise

° " "

Variation of the Compass by Azimuth ⊕ observed at

° " "

Water expended during the preceding 24 hours

250 gallons.

Water Condensed during the preceding 24 hours

800 "

Water remaining on hand fit for me at Noon

1700 "

Coal consumed during the preceding 24 hours

1 tons 370 lbs.

Coal remaining on hand at Noon

66 " 753 "

P.M.

1		NW	1	29.83	85	86	84		bc	Cum Nimb	2	S	
2		"	1	29.80	85	87	85		"	"	2	"	
3		"	1	29.80	85	87	85		"	"	3	"	
4		"	1	29.77	85	87	85		"	"	5	"	
5		W	1	29.79	85	86	84		"	"	5	"	
6		SW	1	29.87	85	86	83		"	"	3	"	
7		Calm	0	29.83	84	85	83		bcl	"	2	"	
8		"	0	29.85	83	84	80		"	"	2	"	
9		N	1	29.86	82	83	80		oltr	"	0	"	
10		SW	1	29.87	80	82	80		"	"	0	"	
11		"	1	29.88	80	81	80		ol	"	0	"	
Mid.		"	1	29.87	80	81	80		o	"	0	"	

Longitude by Chronometer from Afternoon Observations ⊕

° ' "

Longitude by Chronometer Observations

° ' "

Variation of the Compass by Amplitude observed at Sunset

° ' "

Variation of the Compass by at

° ' "

under the command of Commander Winfield Scott Schley, U. S. Navy.
Saturday November 24th, 1877.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Overcast. Rainy last half of watch. Cum. Nimb. clouds. Obscured moonlight. Fires banked in two boilers. Steam pressure 25 lbs. Distilling.

(Signed) Samuel C. Lemly
Ensign.

From 4 to 8 A.M. Cloudy. Pleasant. Light airs from S. S. W. and calm. At 8, loosed sail to a bowline. Fires banked in two boilers. Steam pressure 25 lbs. Distilling. Irving Winbush (W.O.S.) and W. H. Rich (Lds) were released from confinement by order of Commander.

(Signed) Charles B. T. Moore
Ensign.

From 8 to Merid. Overcast and warm. Light airs from N. and E. The Governor of the island paid an official visit to the Commander. Received a loads of coal, on lighter. Fires banked in two boilers. Steam pressure 25 lbs. Distilling. Received in Pay Dept. 6 bags of bread.

(Signed) James K. Cogswell
Lieut.

From Merid. to 4 P.M. Partially cloudy. Warm. Pleasant. Light airs from S. W. Barometer falling. Engaged in coaling ship. By order of Commander, Irving Winbush (W.O.S.) was placed in confinement, simple confinement during the day, double irons at night, to await action of Court Martial, for scandalous conduct.

(Signed) Clinton K. Curtis
Lieut.

From 4 to 8 P.M. Partially clear. Warm. Light variable airs. Cum. Nimb. clouds. Engaged in coaling ships. Lightening during latter part of watch. Fires banked in two boilers. Steam pressure 25 lbs. Distilling.

(Signed) Samuel C. Lemly
Ensign.

From 8 to Midnight. Overcast and pleasant. Light variable airs. Fires banked in two boilers. Steam pressure 25 lbs. Distilling.

(Signed) James K. Cogswell
Lieut.

(Signed) Asa Walker,
Lieut
Navigator.

Examined and found to be correct

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Port Clarence, Fernando Po

Hour.	Knots Fathoms.	WINDS.		Leeway.	BAROMETER.		TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
		Courses steered.	Direction.	Force.	Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A.M														
1			SW	1	29.87	80	80	79		o	Nimb	0	S	
2			"	1	29.86	80	79	78		ortl	"	0	"	
3			"	1	29.85	80	79	78		"	"	0	"	
4			"	1	29.85	80	80	78		"	Cum nimb	0	"	
5			Calm	0	29.86	80	80	79		otl	"	0	"	
6			"	0	29.88	80	80	80		"	"	0	"	
7			"	0	29.89	80	81	80		o	"	0	"	
8			"	0	29.90	80	81	80		"	"	0	"	
9			"	0	29.90	80	82	80		"	"	0	"	
10			"	0	29.91	80	82	80		"	"	0	"	
11			"	0	29.91	80	82	80		"	"	0	"	
Noon			NE	1	29.89	81	83	81		op	"	0	"	

Distance run by Log since preceding Noon

knots fathoms.

Latitude by D. R. at Noon

° ' "

Longitude by D. R. at Noon

° ' "

Latitude by Observations at Noon ⊕

° ' "

Longitude by Chronometer from Forenoon Observations ⊕

° ' "

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊕ observed at Sunrise

° " "

Variation of the Compass by Azimuth ⊕ observed at

° " "

Water expended during the preceding 24 hours

250 gallons.

Water Condensed during the preceding 24 hours

500 "

Water remaining on hand fit for me at Noon

2000 "

Coal consumed during the preceding 24 hours

1 tons 710 lbs.

Coal remaining on hand at Noon

65 " 23 "

P.M.

1			NE	1	29.84	81	83	82		bc	Cum Nimb	4	S	
2			"	1	29.80	82	84	82		"	"	6	"	
3			N	1	29.79	85	84	83		"	"	5	"	
4			"	1	29.78	83	84	83		"	"	5	"	
5			W	1	29.78	83	84	83		"	"	5	"	
6			"	1	29.80	83	84	83		"	"	5	"	
7			Calm	0	29.83	83	84	83		"	"	4	"	
8			"	0	29.85	84	84	83		"	"	3	"	
9			SW	1	29.85	84	84	83		bcl	"	4	"	
10			SSW	1	29.86	81	83	82		"	"	3	"	
11			SW	1	29.87	81	82	81		ol	"	2	"	
Mid.			NE	3-7	29.89	79	78	77		orq!t	"	0	"	

Longitude by Chronometer from Afternoon Observations ⊕

° ' "

Longitude by Chronometer Observations

° ' "

Variation of the Compass by Amplitude observed at Sunset

° ' "

Variation of the Compass by at

° ' "

under the command of Commander Winfield Scott Schley, U. S. Navy.
Sunday November 25th, 1877.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Cloudy. Rainy. Violent thunder and lightening part of watch.
Barometer steady. Light S. W. airs.

(Signed) James K. Cogswell
Lieut.

From 4 to 8 A.M. Overcast. Pleasant. Cum. Nimb. clouds. Thunder and lightening first part of
watch. Engaged in coaling ship. Fires banked in two boilers. Steam pressure 25 lbs. Distilling.

(Signed) Samuel C. Lemly
Ensign.

From 8 to Merid. Overcast. Warm. Calm and light airs from N. E. Coaling ship. Fires banked in
two boilers. Steam pressure 25 lbs. Distilling.

(Signed) Charles B. T. Moore
Ensign.

From Merid. to 4 P.M. Cloudy and warm. Light airs from N. and E. Stopped coaling at 2. Fires
banked in two boilers. Steam pressure 25 lbs. Distilling. Entire amount received 35 tons, from
American coal pile onshore.

(Signed) James K. Cogswell
Lieut.

From 4 to 8 P.M. Partially cloudy. Pleasant. Calm and light airs from W. At sundown sent down
light yards. Fires banked in two boilers. Steam pressure 25 lbs. Distilling.

(Signed) Clinton K. Curtis.
Lieut.

From 8 to Midnight. Overcast. Pleasant first part. Heavy tornado, with rain, last hour. Veered to
45 fathoms port chain. Lightening. Fires banked in two boilers. Steam pressure 25 lbs. Distilling.

(Signed) Charles B. T. Moore
Ensign.

(Signed) Asa Walker,
Lieut
Navigator.

Examined and found to be correct

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Port Clarence, Fernando Po

Hour.	Knots Fathoms.	WINDS.		Leeway.	BAROMETER.		TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. Of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
		Courses steered.	Direction.	Force.	Height in inches.	Ther. Alt'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A.M														
1			Calm	0	29.87	80	79	77		otl	Nimb	0	S	
2			"	0	29.85	80	79	77		or	"	0	"	
3			"	0	29.85	80	79	77		"	"	0	"	
4			"	0	29.85	80	79	77		"	"	0	"	
5			"	0	29.87	80	78	77		"	"	0	"	
6			"	0	29.89	79	78	76		"	"	0	"	
7			"	0	29.91	78	78	76		"	"	0	"	
8			"	0	29.93	78	78	76		"	"	0	"	
9			"	0	29.92	78	79	77		"	Cum Nimb	0	"	
10			"	0	29.92	79	79	79		o	"	0	"	
11			"	0	29.91	79	80	80		bc	"	1	"	
Noon			N	0-1	29.88	79	81	80		"	"	2	"	

Distance run by Log since preceding Noon

knots fathoms.

Latitude by D. R. at Noon

° ' "

Longitude by D. R. at Noon

° ' "

Latitude by Observations at Noon ⊕

° ' "

Longitude by Chronometer from Forenoon Observations ⊕

° ' "

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊕ observed at Sunrise

° " "

Variation of the Compass by Azimuth ⊕ observed at

° " "

Water expended during the preceding 24 hours

250 gallons.

Water Condensed during the preceding 24 hours

1000 "

Water remaining on hand fit for me at Noon

2800 "

Coal consumed during the preceding 24 hours

4 tons 1380 lbs.

Coal remaining on hand at Noon

101 " 2003 "

P.M

1			ESE	1	29.85	82	83	81		bc	Cum Nimb	1	S	
2			SW	1	29.82	82	83	81		"	"	2	"	
3			"	1	29.81	82	84	82		"	"	2	"	
4			WSW	1	29.81	82	84	82		"	"	4	"	
5			Calm	0	29.81	83	85	83		"	"	5	"	
6			"	0	29.83	82	84	82		"	"	6	"	
7	1	4	SSE	ESE	1	29.86	81	83	81	"	Cum	7	"	
8	2		"	"	1	29.87	81	83	81	"	"	7	"	
9	3		S	"						"	"			
10	8	2	s by w 1/2 w	SW	1	29.89	81	84	82	"	Cir Cum	8	"	
11	8	4	"	W by S	1	29.87	81	84	82	"	"	3	"	
Mid.	8	6	"	SSW	2	29.87	81	83	81	"	"	4	"	
	8	6	"	Calm	0	29.86	81	83	81	"	"	6	"	Main try sail.

Longitude by Chronometer from Afternoon Observations ⊕

° ' "

Longitude by Chronometer Observations

° ' "

Variation of the Compass by Amplitude observed at Sunset

° ' "

Variation of the Compass by at

° ' "

under the command of Commander Winfield Scott Schley, U. S. Navy.
Monday November 26th, 1877.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Cloudy. Calm. Continuous rain. Fires banked in two boilers.
Steam pressure 25 lbs. Distilling.

(Signed) James K. Cogswell
Lieut.

From 4 to 8 A.M. Overcast. Rainy. Calm. Barometer rising. At 7, British steamer "Corisco" came in and anchored. Fires banked in two boilers. Steam pressure 25 lbs. Distilling.

(Signed) Clinton K. Curtis
Lieut.

From 8 to Merid. Overcast. Rainy first part of watch. Calm. Cum. Nimb. clouds. At 10 Royal Mail Steamer "Corisco" left the harbor. At 10.20 loosed sail to a bowline. Engaged in coaling ship. By order of Commander, W. H. Hosmer (Lds) for being asleep on lookout, 12 hours extra duty. J. B. Stanley (O.S.2.C.) for being out of uniform, 4 hours extra duty and J. Veller (Bugler) for hanging things in port in starboard gangway, to stand 2 extra night watches. Fires banked in two boilers. Steam pressure 25 lbs. Distilling.

(Signed) Samuel C. Lemly
Ensign.

From Merid. to 4 P.M. Cloudy. Warm. Light variable airs. Coaling ship. Received 41 1/2 tons of coal. Stopped distilling at 3.25. At 2.15 started fires in two boilers. Fires in four boilers. Steam pressure 25 lbs.

(Signed) Charles B. T. Moore
Ensign.

From 4 to 6 P.M. Cloudy and pleasant. Calm. At 5.25 got underway and stood out from Fernando Po. Draught forward 13 feet 9 in. Amidships 14 feet 9 in. Aft 15 feet 10 in. Steaming with four boilers. Steam 60 lbs. Rev. 40.

(Signed) James K. Cogswell
Lieut.

From 6 to 8 P.M. Clear and pleasant. Light breeze from S. and E. At 6.50 took departure. Cape Ratro bearing (pc) W. distant 2 miles. At 7.10 changed course to S. and at 7.40 changed course to S. by W. 1/2 W. Steaming with four boilers. Steam pressure 60 lbs. Revolutions 41.

(Signed) Clinton K. Curtis
Lieut.

From 8 to Midnight. Partially clear. Pleasant. Light variable airs and calm. Cir. Cum. clouds. At 9.30 set fore and aft sail. At 11.30 hauled down fore topmast staysail. At 11.45 took in spanker and hauled down jib. Moon rose at 11. Steaming with four boilers. Steam pressure 65 lbs. Revolutions 49. Temp. of bunkers 110°.

(Signed) Samuel C. Lemly
Ensign.

(Signed) Asa Walker,
Lieut
Navigator.

Examined and found to be correct

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, At Sea.

Hour.	Knots Fathoms.		WINDS.			BAROMETER.		TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
			Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. at't'd.	Air Dry Bulb.	Air Wet Bulb.					
A.M															
1	8	6	S by w 1/2 w	SSE	1	29.87	82	84	82	84	bc	Cum Nimb	6	S	Fore and aft sail
2	8	6	"	"	1	29.88	82	85	82	84	"	Cir Cum	8	"	"
3	8	0	"	"	2	29.86	82	85	82	84	"	"	6	"	"
4	8	0	"	"	2	29.86	82	85	82	84	"	"	4	"	"
5	7	6	"	S by W	1	29.85	82	84	82	84	"	"	2	"	"
6	7	4	"	"	1	29.87	82	84	82	84	"	"	0	"	"
7	7	6	"	"	2	29.88	82	84	82	84	"	"	0	"	"
8	8	0	"	"	3	29.90	82	85	82	84	"	"	0	"	"
9	8	0	"	SW by W	2	29.90	83	86	82	84	"	"	0	"	"
10	8	0	"	"	2	29.90	83	86	82	84	tc	"	2	"	Main try sail.
11	7	6	"	"	2	29.88	84	86	82	84	"	"	2	"	"
Noon	8	6	"	"	2	29.89	84	86	82	84	"	"	1	"	"

Distance run by Log since preceding Noon

129 knots

2 fathoms.

Latitude by D. R. at Noon

1 ° 28 ' 00 " N.

Longitude by D. R. at Noon

9 ° 05 ' 30 " E.

Latitude by Observations at Noon ⊕

1 ° 19 ' 15 " N.

Longitude by Chronometer from Forenoon Observations ⊕

8 ° 56 ' 00 " E.

Current during the time knots fms. per hour, setting to the

° " "

Variation of the Compass by Amplitude ⊕ observed at Sunrise

° " "

Variation of the Compass by Azimuth ⊕ observed at

Water expended during the preceding 24 hours

250 gallons.

Water

during the preceding 24 hours

"

Water remaining on hand fit for me at Noon

2600 "

Coal consumed during the preceding 24 hours

7 tons 1330 lbs.

Coal remaining on hand at Noon

94 " 673 "

P.M.

1	2 5	6 2	sw by w 1/2 w s 1/4 e	sw by s	3	29.86	83	86	82	84	bc	Cir Cum Nimb	4	S		
2	7	6	"	SSW	3	29.84	83	86	83	84	"	"	6	"		
3	7	6	"	"	3	29.81	84	87	83	84	"	"	7	"		
4	7	6	"	SW	3	29.80	84	87	84	84	"	"	7	"		
5	7	6	SE by S	"	3	29.80	83	85	83	84	"	"	8	"		
6	5 2	2 4	se by s 1/2 s SE	"	3	29.82	83	85	83	84	"	Cum Nimb	4	"		
7			"	"	3	29.84	83	85	83		bcl	"	8	"		
8			At Anchor	"	2	29.86	83	85	83		"	"	7	"		
9			"	"	2	29.86	83	85	83		"	"	3	"		
10			"	"	2	29.86	83	85	83		bctf	"	3	"		
11			"	"	2	29.86	83	85	82		opl	"	0	"		
Mid.			"	"	1	29.86	83	85	82		"	"	0	"		

Longitude by Chronometer from Afternoon Observations ⊕

° ' "

Longitude by Chronometer Observations]

° ' "

Variation of the Compass by Amplitude

observed at Sunset

° ' "

Variation of the Compass by

at

° ' "

under the command of Commander Winfield Scott Schley, U. S. Navy.
Tuesday November 27th, 1877.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear and pleasant. Moonlight. Light breeze from S. S. E. Steaming with four boilers. At 1.45 dropped Fernando Po. At 12.45 set jib F. T. M. S. S. and spanker. Steam pressure 60 lbs. Revolutions 48.

(Signed) Charles B. T. Moore
Ensign.

From 4 to 8 A.M. Overcast and pleasant. Light breeze from S. and W. Sea smooth. At 6.30 took in fore and aft sail. Steaming with four boilers. Steam pressure 60 lbs. Revolutions 44.

(Signed) James K. Cogswell
Lieut.

From 8 to Merid. Cloudy. Pleasant. Light breeze from S. and W. At 9.15 inspected at quarters, immediately after exercised at company and howitzer drill. At 10, Court of Investigation, composed of Chief Engineer P.A. Rearick, Lieut. J.K. Cogswell and Ensign S.C. Lemly, met to investigate charges of scandalous conduct in the case of Irving Winbush (W.O.S). Court adjourned at 11.40. Steaming with four boilers. Steam pressure 60 lbs. Revolutions 49. Temp. of bunkers 110°.

(Signed) Clinton K. Curtis
Lieut.

From Merid. to 4 P.M. Clear. Warm. Passing showers first hour. Cir. Cum. Nimb. clouds. At 12.20 changed course to S 1/4 E. At 1.25 set main trysail, and at 1.45 took it in. Sighted low land on port bearing. At 4, got cast of deep sea lead, 70 fathoms, bottom blue mud. Steaming with four boilers. Steam pressure 55 lbs. Revolutions 48.

(Signed) Samuel C. Lemly
Ensign.

From 4 to 6 P.M. Clear. Pleasant. Light breeze from S. W. Steaming with four boilers. At 4.10 set jib main trysail and spanker. At 4 changed course to S. E. by S. At 5, to S. E. by S 1/2 S. At 5.40 S.E. Steam pressure 60 lbs. Revolutions 48.

(Signed) Charles B. T. Moore
Ensign.

From 6 to 8 P.M. Clear and pleasant. Light breeze from [blank] At 6.30 came to anchor off Cape Esterias, in 11 fathoms water, veering to 45 fathoms starboard chain. Cape Joinerille bearing (pc) S. by E. Draught forward 13 feet 9 in. Amidships 14 feet 9 in. Aft 15 feet 10 in. Banked fires in four boilers. Steam pressure 25 lbs. Distilling.

(Signed) James K. Cogswell
Lieut.

From 8 to Midnight. Cloudy first part. Rainy last two hours. Light breeze from S. W. Barometer steady. Fires banked in four boilers. Distilling. Temp. of bunkers 110°. Steam pressure 20 lbs.

(Signed) Clinton K. Curtis
Lieut.

Examined and found to be correct

(Signed) Asa Walker, Lieut
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Off Cape Esterias, and Libreville, Gaboon River.

Hour.	Knots Fathoms.	Courses steered.	WINDS.		Leeway.	BAROMETER.			TEMPERATURE.		State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
			Direction.	Force.		Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A.M															
1			SW	2-5		29.86	83	83	81		brqIt	Nimb	0	S	
2			"	2-3		29.85	82	83	81		borlq	"	0	"	
3			"	2-4		29.85	81	82	81		"	"	0	"	
4			"	2-5		29.84	81	82	80		"	"	0	"	
5			"	3-5		29.83	81	82	80		opt	"	0	"	
6			"	2		29.82	81	82	80		opt	Cum Nimb	0	"	
7			S	2		29.83	81	82	80		opt	"	0	"	
8			"	3		29.85	81	83	80		op	"	0	"	
9			SSE	3		29.85	83	82	80		or	"	0	"	
10	Standing into Gaboone River under direction of Navigator		"	1		29.86	83	80	78		"	"	0	"	
11			"	1		29.86	82	80	78		o	"	0	"	
Noon			"	1		29.85	83	81	79		"	"	0	"	

Distance run by Log since preceding Noon

knots fathoms.

Latitude by D. R. at Noon

° ' "

Longitude by D. R. at Noon

° ' "

Latitude by Observations at Noon ⊕

° ' "

Longitude by Chronometer from Forenoon Observations ⊕

° ' "

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊕ observed at Sunrise

° ' "

Variation of the Compass by Azimuth ⊕ observed at

° ' "

Water expended during the preceding 24 hours

250 gallons.

Water Condensed during the preceding 24 hours

300 "

Water remaining on hand fit for me at Noon

2600 "

Coal consumed during the preceding 24 hours

3 tons 1230 lbs.

Coal remaining on hand at Noon

90 " 1673 "

P.M.

1		S by W	1	29.84	83	83	81	bc	Cir Cum	2	S
2	At Anchor	"	1	29.82	83	83	81	"	"	3	"
3		"	1	29.80	83	83	81	"	"	3	"
4		"	1	29.78	84	83	81	"	"	3	"
5		W	2	29.80	83	83	81	"	Cir Cum Nimb	4	"
6		NW	3	29.81	81	83	81	"	"	5	"
7		"	3	29.82	81	83	81	"	"	6	"
8		"	3	29.84	82	83	81	"	"	6	"
9		"	2	29.86	82	82	80	"	"	9	"
10		"	2	29.86	82	82	80	"	"	9	"
11		NNE	1	29.87	82	82	80	"	"	8	"
Mid.		"	1	29.87	82	82	80	"	"	8	"

Longitude by Chronometer from Afternoon Observations ⊕

° ' "

Longitude by Chronometer Observations

° ' "

Variation of the Compass by Amplitude observed at Sunset

° ' "

Variation of the Compass by

at

° ' "

under the command of Commander Winfield Scott Schley, U. S. Navy.
Wednesday November 28th, 1877.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Overcast. Heavy rain squalls, with thunder and lightening. S. W. wind strong in gusts. Fires banked in four boilers. Steam pressure 25 lbs. Distilling.

(Signed) Samuel C. Lemly
Ensign.

From 4 to 8 A.M. Overcast. Squally. Passing showers. Light breeze from S. and W. At 7 spread fire. At 7.30 called all hands up anchor. Stopped distilling at 7.30. Fires in four boilers. Steam pressure 60 lbs. Draught forward 13 feet 9 in. Amidships 14 feet 9 in. Aft 15 feet 10 in. John W. Green (Lds) was confined in double irons for not going to his station at all hands, and not obeying orders of Master at Arms promptly, by order of Commander.

(Signed) Charles B. T. Moore
Ensign.

From 8 to Merid. Overcast and rainy. Light airs from S. and E. At noon came to anchor off Livreville, [sic] Gaboon River, in 5 fathoms water, veering to 45 fathoms port chain. Orocucllo Point bearing (pc) S. by E. 3/4 E. Pougasa Point W. Draught forward 13 feet 11 in. Amidships 14 feet 11 in. Aft 15 feet 10 in. Hauled fires in two boilers, banked in two. Steam pressure 60 lbs. Distilling.

(Signed) James K. Cogswell
Lieut.

From Merid. to 4 P.M. Cloudy. Warm. Light airs from S. and W. At 1.30 loosed sail today. Read report of Board of Investigation, to Irving Winbush (W.O.S.), at the mast, and re-confined him. At 3.30 American Consul visited the ship. Fires banked in two boilers. Steam pressure 25 lbs. Distilling.

(Signed) Clinton K. Curtis
Lieut.

From 4 to 8 P.M. Clear. Pleasant. Cir. Cum. Nimb. clouds. Light N. W. breeze. At 4.30 furled sail. At 4.45 low water slack. At 5.45 swung to ebb. Fires banked in two boilers. Steam pressure 25 lbs. Distilling.

(Signed) Samuel C. Lemly
Ensign.

From 8 to Midnight. Clear and pleasant. Light breeze from N. and W, first part, from N. and E. latter part of watch. Hauled fires and stopped at 10. Riding to flood.

(Signed) James K. Cogswell
Lieut.

(Signed) Asa Walker,
Lieut
Navigator.

Examined and found to be correct

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Off Libreville, Gaboon River

Hour.	Knots Fathoms.	WINDS.		Leeway.	BAROMETER.		TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
		Courses steered.	Direction.	Force.	Height in inches.	Ther. at't'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A.M														
1			SE	1	29.86	80	82	80		bcl	Cum Nimb	1	S	
2			"	1	29.86	80	82	80		"	"	1	"	
3			"	1	29.86	80	82	80		"	"	1	"	
4			"	1	29.86	80	82	80		"	"	1	"	
5			SW	1	29.87	80	82	80		"	"	2	"	
6			W	1	29.87	80	81	80		bc	"	3	"	
7			NW	1	29.88	80	81	80		"	"	5	"	
8			ESE	1	29.88	79	81	80		"	"	5	"	
9			S	1	29.90	80	82	80		"	"	5	"	
10			"	1	29.91	81	83	81		"	"	4	"	
11			"	1	29.92	81	83	81		"	"	4	"	
Noon			SSW	2	29.90	81	83	81		"	"	5	"	

Distance run by Log since preceding Noon

knots fathoms.

Latitude by D. R. at Noon

° ' "

Longitude by D. R. at Noon

° ' "

Latitude by Observations at Noon ⊕

° ' "

Longitude by Chronometer from Forenoon Observations ⊕

° ' "

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊕ observed at Sunrise

° " "

Variation of the Compass by Azimuth ⊕ observed at

° " "

Water expended during the preceding 24 hours

250 gallons.

Water Condensed during the preceding 24 hours

300 "

Water remaining on hand fit for me at Noon

2700 "

Coal consumed during the preceding 24 hours

tons 250 lbs.

Coal remaining on hand at Noon

90 " 1423 "

P.M.

1		S by W	1	29.86	82	84	82		bc	Cir Cum	4	S	
2		Calm	1	29.83	83	86	83		"	"	6	"	
3		W	2	29.80	83	86	84		"	"	5	"	
4		"	1	29.82	84	86	84		"	"	4	"	
5		"	1	29.85	84	85	83		"	"	3	"	
6		NNE	1	29.85	84	84	82		"	"	2	"	
7		"	1	29.88	84	84	82		"	"	2	"	
8		"	2	29.88	84	84	82		"	"	2	"	
9		N	2	29.90	82	84	82		bcl	Cum Nimb	3	"	
10		WNW	2	29.91	82	84	82		"	"	1	"	
11		"	2	29.92	82	83	81		obt	"	1	"	
Mid.		"	2	29.90	82	83	81		"	"	1	"	

Longitude by Chronometer from Afternoon Observations ⊕

° ' "

Longitude by Chronometer Observations

° ' "

Variation of the Compass by Amplitude observed at Sunset

° ' "

Variation of the Compass by at

° ' "

under the command of Commander Winfield Scott Schley, U. S. Navy.
Thursday November 29th, 1877.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Cloudy. Light breeze from S. W. Barometer steady. Lightening around horizon.

(Signed) Clinton K. Curtis
Lieut.

From 4 to 8 A.M. Clear. Pleasant. Light variable airs. Cum. Nimb. clouds. Low water slack at 6.45. Swung to flood at 7.15. At 8, crossed light yards.

(Signed) Samuel C. Lemly
Ensign.

From 8 to Merid. Cloudy. Pleasant. Light variable airs. Riding to flood tide. Aired bedding. At 11, served out clean hammocks at quarters. Commanding Officer and staff paid an official visit to Naval Commandant.

(Signed) Charles B. T. Moore
Ensign.

From Merid. to 4 P.M. Cloudy and pleasant. Calm first part, light breeze from S. and W. latter part of watch. Hight [sic] water at 1.30. Swung to ebb at 2. Naval Commandant and staff paid and official visit to this ship.

(Signed) James K. Cogswell
Lieut.

From 4 to 8 P.M. Cloudy. Pleasant. Light airs from N. and E. Swung to flood at 7. At sundown sent down light yards.

(Signed) Clinton K. Curtis
Lieut.

From 8 to Midnight. Cloudy first part. Raining last two hours. Light breeze from N. and W. Thunder and lightening.

(Signed) Charles B. T. Moore
Ensign.

(Signed) Asa Walker,
Lieut
Navigator.

Examined and found to be correct

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Off Libreville, Gaboon River

Hour.	Knots Fathoms.	WINDS.		Leeway.	BAROMETER.		TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
		Courses steered.	Direction.	Force.	Height in inches.	Ther. at't'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A.M.														
1			W	1	29.89	79	81	80		bclr	Cum Nimb	2	S	
2			"	1	29.87	79	81	80		obr	"	1	"	
3			SW	1	29.86	79	81	80		ol	"	0	"	
4			SSE	1	29.86	79	81	80		olt	"	0	"	
5			"	1	29.86	80	80	78		o	"	0	"	
6			E	1	29.86	80	80	78		"	"	0	"	
7			"	1	29.86	80	80	78		"	"	0	"	
8			NE	1	29.87	80	81	79		"	"	0	"	
9			S	1	29.88	80	82	81		bc	"	2	"	
10			"	1	29.89	80	82	82		"	"	3	"	
11			SW	1	29.87	80	83	82		"	"	4	"	
Noon			"	1	29.86	81	83	82		"	"	4	"	

Distance run by Log since preceding Noon

knots fathoms.

Latitude by D. R. at Noon

° ' "

Longitude by D. R. at Noon

° ' "

Latitude by Observations at Noon ⊕

° ' "

Longitude by Chronometer from Forenoon Observations ⊕

° ' "

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊕ observed at Sunrise

° " "

Variation of the Compass by Azimuth ⊕ observed at

° " "

Water expended during the preceding 24 hours

250 gallons.

Water during the preceding 24 hours

"

Water remaining on hand fit for me at Noon

2200 "

Coal consumed during the preceding 24 hours

tons 1750 lbs.

Coal remaining on hand at Noon

89 " 1913 "

P.M.

1		WSW	1	29.84	82	84	82		bc	Cir Cum Nimb	7	S	
2		"	1	29.82	83	85	83		"	"	6	"	
3		W	2	29.81	83	85	83		"	Cir Cum	5	"	
4		"	3	29.80	83	85	83		"	"	6	"	
5		WSW	3	29.80	83	85	84		"	"	6	"	
6		"	2	29.82	83	85	82		orbt	"	0	"	
7		"	2	29.84	83	85	82		"	"	0	"	
8		"	1	29.86	83	85	82		bc	"	1	"	
9		W	1	29.87	83	84	81		"	Cir Cum Nimb	3	"	
10		"	1	29.87	83	83	81		"	"	8	"	
11		"	1	29.88	83	83	81		"	"	4	"	
Mid.		"	1	29.88	83	83	81		"	"	3	"	

Longitude by Chronometer from Afternoon Observations ⊕

° ' "

Longitude by Chronometer Observations

° ' "

Variation of the Compass by Amplitude

] observed at Sunset

° ' "

Variation of the Compass by

at

° ' "

under the command of Commander Winfield Scott Schley, U. S. Navy.
Friday November 30th, 1877.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Cloudy and pleasant. Raining first part of watch, with thunder and lightening. High water at 2. Swung to ebb at 2.30.

(Signed) James K. Cogswell
Lieut.

From 4 to 8 A.M. Warm. Light airs from S. and E, shifting to N. and E. At 8, crossed light yards. Ship riding to ebb.

(Signed) Clinton K. Curtis
Lieut.

From 8 to Merid. Clear. Warm. Light S[outher]ly. Cir. Cum. Nimb. clouds. At 9.15 exercised at fire quarters. Times as follows. 1st Div. 1 m 35 s. 2nd Div. 1 m 35 s. Eng. Div. 1 m 35 s. Nav. Div. 1 m 35 s. Powder Div 2 m 05 s. Secured at 9.25. Nav. Div. 35 s. Powder Div. 1 m 35 s. 2nd Div. 2 m. Eng. Div. 2 m 15 s. 1st Div. 2 m 17 s. The following punishments were assigned by Comdg Officer, viz. William White (O.S.2.C.) on mid watch, for leaving post at drift lead without being relieved. Jas. Johnson (Sea) double irons, for disrespect to superior officer. Philip Kincade (S. Cook) double irons, for assaulting Corpl. Of Guard. John W. Green (Lds) was released from confinement by order of Commander.

(Signed) Samuel C. Lemly
Ensign.

From Merid. to 4 P.M. Clear. Warm. Light breeze from N. and E. Slack water at 2. Swung to ebb at 2.30.

(Signed) Charles B. T. Moore
Ensign.

From 4 to 8 P.M. Cloudy and pleasant. Light breeze from S. and W. Slack water at 2. Riding to ebb. At sunset sent down light yards.

(Signed) James K. Cogswell
Lieut.

From 8 to Midnight. Clear. Pleasant. Light W[ester]ly breeze. Cir. Cum. Nimb. clouds. At 8.40 slack water. At 9 swung to flood tide.

(Signed) Samuel C. Lemly
Ensign.

(Signed) Asa Walker,
Lieut
Navigator.

Examined and found to be correct

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Off Libreville, Gaboon River

Hour.	Knots Fathoms.	Courses steered.	WINDS.		Leeway.	BAROMETER.		TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
			Direction.	Force.		Height in inches.	Ther. at'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A.M															
1			WNW	1		29.84	81	84	82		op	Cum Nimb	0	S	
2			"	1		29.83	81	84	82		"	"	0	"	
3			W	1		29.83	81	84	82		"	"	0	"	
4			S	1		29.82	82	84	80		o	"	0	"	
5			"	3		29.83	81	83	80		orit	"	0	"	
6			ESE	1		29.85	81	82	80		o	"	0	"	
7			SE	2		29.86	81	82	80		bc	"	1	"	
8			SW	2		29.88	81	83	82		"	"	4	"	
9			"	1		29.88	82	84	82		"	"	4	"	
10			"	1		29.88	82	84	82		"	"	4	"	
11			"	1		29.86	83	85	82		"	"	5	"	
Noon			"	1		29.85	83	85	82		"	"	5	"	

Distance run by Log since preceding Noon

knots fathoms.

Latitude by D. R. at Noon

° ' "

Longitude by D. R. at Noon

° ' "

Latitude by Observations at Noon ⊕

° ' "

Longitude by Chronometer from Forenoon Observations ⊕

° ' "

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊕ observed at Sunrise

° " "

Variation of the Compass by Azimuth ⊕ observed at

° " "

Water expended during the preceding 24 hours

250 gallons.

Water during the preceding 24 hours

"

Water remaining on hand fit for me at Noon

1950 "

Coal consumed during the preceding 24 hours

tons 250 lbs.

Coal remaining on hand at Noon

89 " 1663 "

P.M.

1		SW	2	29.83	84	86	83		bc		Cum Nimb	5	S	
2		W	2	29.81	84	86	84		"		"	3	"	
3		"	2	29.79	84	86	84		"		"	5	"	
4		"	2	29.79	84	86	84		"		"	5	"	
5		"	2	29.78	83	85	83		"		"	4	"	
6		"	2	29.80	83	85	83		"		"	2	"	
7		WNW	2	29.81	83	85	83		"		"	3	"	
8		"	2	29.83	83	85	83		"		"	1	"	
9		NE	2	29.85	83	85	83		op		"	0	"	
10		"	1	29.85	83	85	83		"		"	0	"	
11		"	1	29.85	83	85	83		"		"	0	"	
Mid.		"	1	29.85	83	85	83		bcp		"	1	"	

Longitude by Chronometer from Afternoon Observations ⊕

° ' "

Longitude by Chronometer Observations

° ' "

Variation of the Compass by Amplitude observed at Sunset

° ' "

Variation of the Compass by at

° ' "

under the command of Commander Winfield Scott Schley, U. S. Navy.
Saturday December 1st, 1877.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Overcast. Passing showers. Light airs N. and W. Slack water at 2.30. Swung to ebb at 3.15

(Signed) Charles B. T. Moore
Ensign.

From 4 to 8 A.M. Cloudy and pleasant. Light airs from S. and E. At 8, crossed light yards. Riding to ebb.

(Signed) James K. Cogswell
Lieut.

From 8 to Merid. Partially cloudy. Pleasant. Light breeze from S. W. Swung to flood at 8.30. At 9.15 loosed sail to a bowline. Received in Pay Dept. 1400 lbs of bread.

(Signed) Clinton K. Curtis
Lieut.

From Merid. to 4 P.M. Clear. Warm. Light W[ester]ly breeze. Cum. Nimb. clouds. At 2.20 furled sail. Riding to flood. At 3, high water slack.

(Signed) Samuel C. Lemly
Ensign.

From 4 to 8 P.M. Cloudy. Passing showers, second hour. At 4.45 swung to ebb. Light breeze from W.

(Signed) Charles B. T. Moore
Ensign.

From 8 to Midnight. Cloudy. Rainy. Light breeze from N. E. Barometer steady. Ship swung to flood at 9.30.

(Signed) Charles B. T. Moore
Ensign.

(Signed) Asa Walker,
Lieut
Navigator.

Examined and found to be correct

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Off Libreville, Gaboon River

Hour.	Knots Fathoms.	WINDS.		BAROMETER.			TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
		Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. at't'd.	Air Dry Bulb.	Air Wet Bulb.					
A.M														
1			SW	1		29.84	83	83	82	bc	Cum Nimb	3	S	
2			"	2		29.83	82	83	82	bcl	"	3	"	
3			"	3-4		29.82	81	83	82	orit	"	0	"	
4			"	2-4		29.81	80	83	82	"	"	0	"	
5			SSW	2		29.82	80	83	82	olt	"	0	"	
6			"	1		29.83	81	83	82	bcl	"	1	"	
7			S	1		29.84	81	83	82	bct	"	3	"	
8			SE	2		29.86	81	83	82	bc	"	3	"	
9			S	2		29.87	81	83	82	"	"	1	"	
10			SSW	1		29.86	82	83	82	o	"	0	"	
11			SW	2		29.86	82	84	82	"	"	0	"	
Noon			W	2		29.85	83	85	83	"	"	0	"	

Distance run by Log since preceding Noon

knots fathoms.

Latitude by D. R. at Noon

° ' "

Longitude by D. R. at Noon

° ' "

Latitude by Observations at Noon ⊕

° ' "

Longitude by Chronometer from Forenoon Observations ⊕

° ' "

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊕ observed at Sunrise

° " "

Variation of the Compass by Azimuth ⊕ observed at

° " "

Water expended during the preceding 24 hours

250 gallons.

Water during the preceding 24 hours

"

Water remaining on hand fit for me at Noon

1700 "

Coal consumed during the preceding 24 hours

tons 250 lbs.

Coal remaining on hand at Noon

89 " 1413 "

P.M.

1		W	2		29.83	83	86	84	bc	Cum	2	S	
2		"	2		29.81	84	86	84	"	"	2	"	
3		"	2		29.79	84	86	84	"	"	2	"	
4		"	2		29.77	84	86	83	"	"	1	"	
5		"	2		29.79	83	85	83	"	Cir Cum	3	"	
6		"	2		29.80	82	84	82	"	"	4	"	
7		"	2		29.82	82	84	82	"	"	2	"	
8		"	2		29.83	82	84	82	o	"	0	"	
9		"	2		29.85	82	84	82	"	Cum Nimb	0	"	
10		"	2		29.87	82	84	82	ol	"	0	"	
11		"	2		29.86	82	84	82	"	"	0	"	
Mid.		"	2		29.86	82	84	82	orbt	Nimb	0	"	

Longitude by Chronometer from Afternoon Observations ⊕

° ' "

Longitude by Chronometer Observations]

° ' "

Variation of the Compass by Amplitude observed at Sunset

° ' "

Variation of the Compass by at

° ' "

under the command of Commander Winfield Scott Schley, U. S. Navy.
Sunday December 2nd, 1877.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear and pleasant first part, cloudy and rainy with thunder and lightening latter part of watch. Light S. W. breeze with heavy gusts. High water slack at 3.30.

(Signed) Samuel C. Lemly
Ensign.

From 4 to 8 A.M. Thunder and lightening. Light variable breeze. Swung to ebb at 4.30.

(Signed) Charles B. T. Moore
Ensign.

From 8 to Merid. Overcast and warm. Light breeze from S. and W. At 9.30 Commanding Officer inspected ship and crew at quarters. Articles of War and Prayers was read and crew mustered. Low water at 9. Swung to flood at 9.30.

(Signed) James K. Cogswell
Lieut.

From Merid. to 4 P.M. Cloudy and pleasant. Light breeze from W. Ship riding to flood tide. Barometer falling. Philip Kincade (Ships Cook) was released from confinement by order of Commander.

(Signed) Clinton K. Curtis
Lieut.

From 4 to 8 P.M. Slack water at 4.54. Swung to ebb at 5.30. Weather cloudy and pleasant. Light wind from W. Cir. Cum. clouds. Riding to ebb tide.

(Signed) Samuel C. Lemly
Ensign.

From 8 to Midnight. Overcast and pleasant. Light breeze from W. Raining last hour of watch. Thunder and lightening. Swung to flood at 9.15.

(Signed) Asa Walker
Lieut.

(Signed) Asa Walker,
Lieut
Navigator.

Examined and found to be correct

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Off Libreville, Gaboon River

Hour.	Knots Fathoms.	WINDS.		BAROMETER.		TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
		Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. at't'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.			
A.M.													
1			W	2		29.86	82	82	82	orit	Cum Nimb	0	S
2			"	1		29.84	82	82	80	ol	"	0	"
3			"	1		29.82	82	82	80	"	"	0	"
4			"	1		29.82	82	82	80	"	"	0	"
5			SW	1		29.84	82	82	80	bc	"	1	"
6			S	1		29.86	81	82	81	"	"	2	"
7			"	1		29.88	81	83	81	"	"	2	"
8			"	1		29.90	81	83	81	"	"	3	"
9			"	2		29.90	82	84	82	"	"	4	"
10			"	1		29.91	83	85	83	"	"	3	"
11			SSE	1		29.90	83	85	83	"	"	3	"
Noon			"	1		29.89	83	85	84	"	"	4	"

Distance run by Log since preceding Noon

knots fathoms.

Latitude by D. R. at Noon

° ' "

Longitude by D. R. at Noon

° ' "

Latitude by Observations at Noon ⊕

° ' "

Longitude by Chronometer from Forenoon Observations ⊕

° ' "

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊕ observed at Sunrise

° " "

Variation of the Compass by Azimuth ⊕ observed at

° " "

Water expended during the preceding 24 hours

250 gallons.

Water during the preceding 24 hours

"

Water remaining on hand fit for me at Noon

1400 "

Coal consumed during the preceding 24 hours

tons 250 lbs.

Coal remaining on hand at Noon

89 " 1163 "

P.M.

1			W	2		29.87	83	85	83	o	Cum Nimb	0	S
2			"	3		29.85	84	86	83	o	"	0	"
3			"	2		29.85	83	84	83	olit	"	0	"
4			"	1		29.87	83	84	83	orit	"	0	"
5			"	1		29.87	83	85	83	bc	"	1	"
6			"	1		29.87	83	85	83	"	"	1	"
7			SW	1		29.87	83	84	83	"	"	3	"
8			"	1		29.87	83	84	82	"	"	3	"
9			WSW	2		29.90	83	84	82	bcl	"	5	"
10			"	2		29.92	83	84	82	olit	"	0	"
11			E	1		29.91	82	84	82	opl	"	0	"
Mid.			"	1		29.90	82	84	82	bcl	"	6	"

Longitude by Chronometer from Afternoon Observations ⊕

° ' "

Longitude by Chronometer Observations

° ' "

Variation of the Compass by Amplitude observed at Sunset

° ' "

Variation of the Compass by at

° ' "

under the command of Commander Winfield Scott Schley, U. S. Navy.
Monday December 3rd, 1877.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Cloudy. Violent rain first hour. Barometer falling.

(Signed) Clinton K. Curtis
Lieut.

From 4 to 8 A.M. Partially clear. Pleasant. Light S[outher]ly airs. An English schooner got underway and left the harbor. At 8, crossed top gallant yards and loosed sail to a bowline. Riding to the ebb.

(Signed) Samuel C. Lemly
Ensign.

From 8 to Merid. Cloudy. Warm. Light airs from S. Swung to flood at 10.40. At 9.15 exercised at general quarters. Cast loose. Marine Guard 30 s. Engineer Div. 45 s. Navigators Div. 2 m 15 s. 2nd Div. 2 m 35 s. 1st Div. 2 m 55 s. Powder Div. 3 m 15 s. Secured. Engineers Div. 30 s. Navigators Div. 2 m 15 s. Powder Div. 3 m. 1st Div. 3 m 45 s. 2nd Div. 4 m 05 s.

(Signed) Charles B. T. Moore
Ensign.

From Merid. to 4 P.M. Overcast and pleasant. Raining last hour, with thunder and lightening. Furled sail at 1. Riding to the flood.

(Signed) James K. Cogswell
Lieut.

From 4 to 8 P.M. Cloudy and threatening. Light S. W. breeze. Tide turned ebb at 5.30. At sundown sent down top gallant yards.

(Signed) Clinton K. Curtis
Lieut.

From 8 to Midnight. Cloudy. Passing showers. Light variable airs. Thunder and lightening. Swung to flood at 11.30.

(Signed) Charles B. T. Moore
Ensign.

(Signed) Asa Walker,
Lieut
Navigator.

Examined and found to be correct

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Off Libreville, Gaboon River

Hour.	Knots Fathoms.	WINDS.		BAROMETER.			TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
		Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. at't'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.				
A.M														
1			SW	3		29.89	82	84	82	bc	Cum Nimb	8	S	
2			"	2		29.87	82	84	82	"	"	8	"	
3			S	2		29.87	82	84	82	"	"	4	"	
4			SE	2		29.87	82	84	82	ol	"	0	"	
5			SSE	2		29.89	81	82	79	o	"	0	"	
6			"	2		29.89	82	82	79	o	"	0	"	
7			"	2		29.91	82	82	79	o	"	0	"	
8			"	2		29.94	82	82	79	o	"	0	"	
9			"	2		29.92	82	82	80	bc	"	3	"	
10			"	3		29.90	82	82	80	o	"	0	"	
11			"	4-6		29.88	82	82	80	"	"	0	"	
Noon			"	3		29.86	82	82	80	"	"	0	"	

Distance run by Log since preceding Noon

knots

fathoms.

Latitude by D. R. at Noon

o

'

"

Longitude by D. R. at Noon

o

'

"

Latitude by Observations at Noon ⊕

o

'

"

Longitude by Chronometer from Forenoon Observations ⊕

o

'

"

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊕ observed at Sunrise

o

"

"

Variation of the Compass by Azimuth ⊕ observed at

o

"

"

Water expended during the preceding 24 hours

250 gallons.

Water during the preceding 24 hours

"

Water remaining on hand fit for me at Noon

1150 "

Coal consumed during the preceding 24 hours

2

tons

1640

lbs.

Coal remaining on hand at Noon

86

"

1763

"

P.M.

1		ESE	1		29.83	81	83	81	bc	Cum Nimb	2	S	
2		"	2		29.85	81	83	81	"	"	0	"	
3		S	1		29.86	82	84	82	"	"	2	"	
4		"	1		29.85	82	84	82	"	"	3	"	
5		Calm	0		29.85	81	83	82	"	"	4	"	
6		"	0		29.86	80	82	81	"	"	5	"	
7		SW	1		29.88	81	82	81	"	"	6	"	
8		"	1		29.90	81	82	81	"	"	9	"	
9		"	1		29.91	80	82	81	"	"	8	"	
10		"	1		29.93	80	83	81	"	"	3	"	
11		"	1		29.93	80	83	81	"	"	1	"	
Mid.		"	1		29.93	80	83	81	"	"	1	"	

Longitude by Chronometer from Afternoon Observations ⊕

o

'

"

Longitude by Chronometer Observations

o

'

"

Variation of the Compass by Amplitude observed at Sunset

o

'

"

Variation of the Compass by at

o

'

"

under the command of Commander Winfield Scott Schley, U. S. Navy.
Tuesday December 4th, 1877.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Cloudy and pleasant. Light breeze from S. and W. first part, from S. and E. latter part of watch. Riding to the flood.

(Signed) James K. Cogswell
Lieut.

From 4 to 8 A.M. Cloudy. Pleasant. Light breeze from S. and E. Tide turned ebb at 5.30. At 5 started fires in boiler Nos. 1 and 3. Started distilling at 8.

(Signed) Clinton K. Curtis
Lieut.

From 8 to Merid. Overcast. Pleasant. Strong wind, with squalls from S. S. E. At 9.15 inspected at quarters. Exercised companies at small arms. Low water slack at 10.30. At 11.30 swung to flood. Fires banked in two boilers. Steam pressure 25 lbs. Distilling. James Jonson (Sea) was released by order of Commander.

(Signed) Samuel C. Lemly
Ensign.

From Merid. to 4 P.M. Cloudy. Pleasant. Light variable airs. Riding to flood. Fires banked in two boilers. Steam pressure 25 lbs. Distilling.

(Signed) Charles B. T. Moore
Ensign.

From 4 to 8 P.M. Clear and pleasant. Calm first part, light airs from S. W. latter part of watch. Chief Engineer P.A. Rearick was placed under suspension, by order of Commander, for being under the influence of liquor. Swung to ebb at 6.30. Banked fires in two boilers. Steam pressure 25 lbs. Distilling.

(Signed) James K. Cogswell
Lieut.

From 8 to Midnight. Partially clear. Pleasant. Light S.W. breeze. Cum. Nimb. clouds. Low water slack at 11.30. at 12, swung to flood. Fires banked in two boilers. Steam pressure 25 lbs. Distilling.

(Signed) Samuel C. Lemly
Ensign.

(Signed) Asa Walker,
Lieut
Navigator.

Examined and found to be correct

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Off Libreville, Gaboon River

Hour.	Knots Fathoms.	WINDS.		BAROMETER.		TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
		Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. at'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.			
A.M													
1			W	2		29.92	80	82	80	bc	Cum Nimb	7	S
2			ESE	2		29.91	80	82	80	"	"	8	"
3			"	1		29.90	80	82	80	"	"	9	"
4			E	1		29.91	80	82	80	"	"	8	"
5			SE	1		29.91	79	81	79	o	"	0	"
6			"	1		29.91	78	80	78	"	"	0	"
7			"	1		29.92	78	80	78	"	"	0	"
8			"	1		29.94	78	80	78	bc	"	2	"
9			SSE	1		29.95	79	82	80	"	"	3	"
10			"	1		29.96	82	85	82	"	"	4	"
11			SW	1		29.95	82	85	82	"	"	4	"
Noon			"	1		29.93	82	85	82	"	"	4	"

Distance run by Log since preceding Noon

knots fathoms.

Latitude by D. R. at Noon

° ' "

Longitude by D. R. at Noon

° ' "

Latitude by Observations at Noon ⊕

° ' "

Longitude by Chronometer from Forenoon Observations ⊕

° ' "

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊕ observed at Sunrise

° " "

Variation of the Compass by Azimuth ⊕ observed at

° " "

Water expended during the preceding 24 hours

250 gallons.

Water Condensed during the preceding 24 hours

1000 "

Water remaining on hand fit for me at Noon

1900 "

Coal consumed during the preceding 24 hours

1 tons 2210 lbs.

Coal remaining on hand at Noon

84 " 1793 "

P.M.

1		SSW	2		29.91	83	85	83	bc	Cir Cum Nimb	2	S
2		S	2		29.89	83	85	83	"	"	3	"
3		SE	2		29.87	83	85	83	"	"	4	"
4		"	2		29.85	83	86	83	"	"	4	"
5		"	2		29.87	83	86	83	"	"	5	"
6		"	2		29.88	83	85	83	"	"	4	"
7		"	1		29.90	82	85	82	"	"	6	"
8		E	1		29.91	82	85	82	"	"	7	"
9		"	1		29.91	82	85	82	"	"	5	"
10		"	1		29.93	82	84	82	"	"	3	"
11		"	1		29.93	82	84	82	"	"	5	"
Mid.		"	1		29.95	82	84	82	"	"	7	"

Longitude by Chronometer from Afternoon Observations ⊕

° ' "

Longitude by Chronometer Observations

° ' "

Variation of the Compass by Amplitude observed at Sunset

° ' "

Variation of the Compass by

at

° ' "

under the command of Commander Winfield Scott Schley, U. S. Navy.
Wednesday December 5th, 1877.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear and pleasant. Light variable airs. Riding to flood. Fires banked in two boilers. Steam pressure 25 lbs. Distilling.

(Signed) Charles B. T. Moore
Ensign.

From 4 to 8 A.M. Overcast and pleasant. Light airs from S. and E. At 8, crossed top gallant yards and loosed sail to a bowline. Swung to ebb at 6. Fires banked in two boilers. Steam pressure 25 lbs. Distilling.

(Signed) James K. Cogswell
Lieut.

From 8 to Merid. Cloudy. Warm. Light breeze from S. and E, shifting to S. and N. At 9.15 inspected at quarters. Exercised at great guns. Fires banked in two boilers. Steam pressure 25 lbs. Distilling. By order of Commander, W.W. Sheldon (O.S.2.C.) was placed in double irons for disobedience of orders.

(Signed) Clinton K. Curtis
Lieut.

From Merid. to 4 P.M. Partially clear. Warm. Light variable airs. Cir. Cum. Nimb. clouds. At 1, furled sail. Hove up port anchor and cleared it. Let go starboard anchor. Fires banked in two boilers. Steam pressure 25 lbs. Distilling.

(Signed) Samuel C. Lemly
Ensign.

From 4 to 8 P.M. Clear and pleasant. Light breeze from S. and E. Sent down top gallant yards at sunset. Making preparations for sea. Swung to ebb at 6.50. Fires banked in two boilers. Distilling.

(Signed) Charles B. T. Moore
Ensign.

From 8 to Midnight. Partially cloudy. Pleasant. Light E[aster]ly breeze. Ship riding to ebb.

(Signed) Clinton K. Curtis
Lieut.

(Signed) Asa Walker,
Lieut
Navigator.

Examined and found to be correct

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Off Libreville, Gaboon River and At Sea

Hour.	Knots	Fathoms.	Courses steered.	WINDS.		Leeway.	BAROMETER.		TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. Of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
				Direction.	Force.		Height in inches.	Ther. Attd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A.M																
1				NE	2		29.93	81	83	80		bc	Cir Cum	8	S	
2				"	2		29.91	80	83	80		"	"	8	"	
3				"	2		29.88	79	82	80		"	"	8	"	
4				SW	2		29.85	78	81	79		"	"	8	"	
5			Standing out of Gaboon River under direction of Navigator	"	2		29.85	78	80	78		"	"	9	"	Jib F.T.M.S.S.
6				"	1		29.86	78	80	78		"	"	7	"	M. try sail and
7	1	0	SW by W	S	1		29.87	79	81	80		"	"	7	"	spanker.
8	10	0	"	S by W	2		29.88	80	81	79		"	"	8	"	
9	9	4	"	"	2		29.90	80	83	80		"	"	1	"	
10	9	0	"	"	2		29.90	81	84	79		"	"	1	"	
11	9	0	"	SW	2		29.90	83	86	82		"	"	4	"	
Noon	2	0	"	"	2		29.87	83	86	83		"	"	4	"	

Distance run by Log since preceding Noon

40 knots

4 fathoms.

Latitude by D. R. at Noon

0 ° 08 ' 00 " S.

Longitude by D. R. at Noon

8 ° 54 ' 30 " E.

Latitude by Observations at Noon ⊕

0 ° 07 ' 52 " S.

Longitude by Chronometer from Forenoon Observations ⊕

° ' "

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊕ observed at Sunrise

° " "

Variation of the Compass by Azimuth ⊕ observed at

° " "

Water expended during the preceding 24 hours

250 gallons.

Water Condensed during the preceding 24 hours

700 "

Water remaining on hand fit for me at Noon

2300 "

Coal consumed during the preceding 24 hours

12 tons 330 lbs.

Coal remaining on hand at Noon

72 " 1463 "

P.M.

1	9	0	SW by W	SW by W	2	29.85	84	87	84		bc	Cir Cum	7	S	
2	9	0	"	"	2	29.84	85	88	84		"	"	7	"	
3	8	4	"	"	2	29.82	85	88	84		"	"	7	"	
4	8	0	S by W 3/4 W	"	2	29.80	85	88	84		"	"	5	"	
5	7	6	S 1/2 E	"	2	29.81	83	86	83	88	"	Cir Cum Nimb	3	L	Fore and aft sail
6	8	6	"	"	2	29.82	83	85	82	88	"	"	3	"	"
7	9	0	"	SW	2	29.85	83	84	82	88	"	"	5	"	"
8	8	6	"	"	2	29.87	83	85	82	88	"	Cir Cum	8	"	"
9	5	0	"	"	2	29.88	83	84	82	84	"	"	8	"	"
10	8	0	"	"	2	29.88	83	84	82	84	"	Cum	7	"	"
11	8	6	"	"	3	29.87	82	84	82	84	"	"	4	"	"
Mid.	8	2	"	"	3	29.85	82	84	82	84	"	"	1	"	"

Longitude by Chronometer from Afternoon Observations ⊕

° ' "

Longitude by Chronometer Observations

° ' "

Variation of the Compass by Amplitude observed at Sunset

° ' "

Variation of the Compass by at

° ' "

under the command of Commander Winfield Scott Schley, U. S. Navy.
Thursday December 6th, 1877.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear. Cool. Pleasant. Light N. E. breeze. Cir. Cum. clouds. At 2.30 started fires in four boilers. Riding to flood. Fires banked in two boilers. Steam pressure 25 lbs. Distilling.

(Signed) Samuel C. Lemly
Ensign.

From 4 to 8 A.M. Clear and pleasant. Light breeze from S. and W. At 5.50 got underway and stood out from Libreville. Steaming with six boilers. At 7.50 set fore and aft sail. Draught forward 13 feet 8 in. Amidships 14 feet 9 in. Aft 15 feet 10 in. Steam pressure 60 lbs. Revolutions 57.

(Signed) Charles B. T. Moore
Ensign.

From 8 to Merid. Cloudy and warm. Light breeze from S. and W. At 10, went through the ceremony of receiving and paying respects to Neptune. At 11, observed a small sloop in distress, went alongside. Found the "New Hamburg", George Morgan, Master, in want of provisions and water. Gave her 3 lbs coffee, 25 lbs bread and 20 galls. water. Steaming with six boilers. Steam pressure 60 lbs. Revolutions 54.

(Signed) James K. Cogswell
Lieut.

From Merid. to 4 P.M. Clear. Warm. Light breeze from S. and W. Steaming two thirds power. Barometer falling. At 2, made lowland, bearing (pc) S. E. 1/2 E. At 3 changed course to S. by W. 3/4 W. By order of Commander, Chief Engineer P.A. Rearick was released from suspension.

(Signed) Clinton K. Custer
Lieut.

From 4 to 6 P.M. Partially clear. Warm. Light S. W[ester]ly breeze. At 4.40 set fore and aft sail. At 6, mustered at quarters. Steaming with six boilers. Steam pressure 65 lbs. Revolutions 60.

(Signed) Samuel C. Lemly
Ensign.

From 6 to 8 P.M. Clear and pleasant. Light breeze from S. W. Steaming with six boilers. Steam pressure 65 lbs. Revolutions 58. Temp. of bunkers 104°.

(Signed) Charles B. T. Moore
Ensign.

From 8 to Midnight. Cloudy and pleasant. Gentle breeze from S. and W. Sounded at 9 and 11, in 25 and 35 fathoms respectively. Soft bottom. Steaming with six boilers. Steam pressure 60 lbs. Revolutions 50.

(Signed) James K. Cogswell
Lieut.

(Signed) Asa Walker,
Lieut
Navigator.

Examined and found to be correct

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, At Sea

Hour.	Knots Fathoms.		WINDS.			BAROMETER.			TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
			Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. at't'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A.M																
1	8	4	S 1/2 E	SW	2		29.86	81	84	82	84	bc	Cum Nimb	1	L	Fore and aft sail.
2	9	0	"	"	1-2		29.83	81	84	82	84	"	"	2	"	"
3	9	0	"	"	1-2		29.82	81	84	82	84	"	"	3	"	"
4	9	2	"	"	1-2		29.80	81	84	82	84	"	"	3	"	"
5	9	0	"	"	1-2		29.83	81	83	80	84	"	"	6	"	Main try sail.
6	8	2	"	"	1		29.86	81	83	80	84	"	Cir Cum Nimb	6	"	
7	8	6	"	"	1		29.87	81	83	81	84	"	"	5	"	
8	8	4	"	"	1		29.88	81	84	82	84	"	"	3	"	
9	8	2	S by E 1/2 E	SSW	1		29.90	82	84	82	84	"	"	5	"	
10	8	2	S by E 3/4 E	"	1		29.90	82	84	82	84	"	"	3	"	
11	7	6	"	"	1		29.89	82	84	82	84	"	"	4	"	
Noon	6	6	"	"	1		29.88	83	85	82	84	"	"	3	"	

Distance run by Log since preceding Noon	200 knots	0 Fathoms.
Latitude by D. R. at Noon	3 °	05 ' 34 " S.
Longitude by D. R. at Noon	9 °	47 ' 00 " E.
Latitude by Observations at Noon ⊕	3 °	13 ' 40 " S.
Longitude by Chronometer from Forenoon Observations ⊕	9 °	37 ' 00 " E.
Current during the time	knots 4	fms. per hour, setting to the S.W. 1/2 W.
Variation of the Compass by Amplitude ⊕ observed at Sunrise	°	" "
Variation of the Compass by Azimuth ⊕ observed at 7.40 A.M.	18 °	00 " 00 " W.
Water expended during the preceding 24 hours		250 gallons.
Water		during the preceding 24 hours "
Water remaining on hand fit for me at Noon		2000 "
Coal consumed during the preceding 24 hours	12 tons	590 lbs.
Coal remaining on hand at Noon	60 "	873 "

P.M.

1	2	0	s by e 3/4 e	SSW	2	29.83	82	85	82	85	bc	Cir Cum	4	L	Fore and aft sail.
	6	4	SSE												
2	8	2	"	"	2	29.81	82	85	82	85	"	"	2	"	"
3	9	0	"	"	2	29.80	82	84	82	85	"	"	0	"	"
4	9	2	"	"	3	29.80	82	84	82	85	"	"	1	"	"
5	8	4	"	"	2	29.79	82	84	81	85	"	"	1	"	"
6	8	2	"	"	2	29.81	81	84	81	85	"	"	2	"	"
7	8	6	"	"	3	29.85	81	83	81	85	"	Cir Cum Nimb	3	"	Same, except F. T. M. S. S.
8	9	0	"	"	3	29.86	81	83	81	84	"	"	4	"	
9	9	4	"	"	2	29.88	81	83	81	84	"	"	6	"	
10	9	0	"	"	2	29.86	81	82	80	84	"	"	6	"	
11	9	0	"	"	2	29.86	81	82	80	84	"	"	7	"	
Mid.	7	4	"	"	2	29.86	81	82	80	84	"	"	8	"	

Longitude by Chronometer from Afternoon Observations ⊕	°	'	"
Longitude by Chronometer Observations	°	'	"
Variation of the Compass by Amplitude	°	'	"
Variation of the Compass by	°	'	"

under the command of Commander Winfield Scott Schley, U. S. Navy.
Friday December 7th, 1877.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Cloudy. Pleasant. Light breeze from S. W. At 2, got cast of lead in 30 fathoms. Steam pressure 63 lbs. Revolutions 53.

(Signed) Clinton K. Curtis
Lieut.

From 4 to 8 A.M. Clear. Pleasant. Light S. W[ester]ly airs. Cir. Cum. Nimb. clouds. At 5, got cast of lead in 40 fathoms of water, bottom blue mud. Steaming with six boilers. Steam pressure 66 lbs. Revolutions 54. Temp. of bunker 105°.

(Signed) Samuel C. Lemly
Ensign.

From 8 to Merid. Cloudy. Pleasant. Light airs from S. S. W. Steaming with six boilers. At 10, set jib, F. T. M. S. S. and spanker. At 9.15 exercised at fire quarters. Cast loose. 1st Div, 45 s. Powder Div. 50 s. Nav. Div. 1 m 05 s. 2nd Div. 1 m 10 s. Eng. Div. 1 m 15 s. Secured. Powder Div. 50 s. Nav. Div. 1 m 05 s. 2nd Div. 1 m 10 s. 1st Div. Eng. Div. 1 m 42 s. At 8, changed course to S[outher]ly E. 1/2 E. At 9, changed course to S. by E. 3/4 E. By order of Commander, W.W. Sheldon (O.S.2.C.) was released from confinement. By order of Commander, Herman Meyer (O.S.2.C.) was confined in double irons for insolence and disobedience of orders. Also E.E. Barclay (O.S.2.C.) was placed in solitary confinement on bread and water, for indecency on quarter deck. Steam pressure 60 lbs. Revolutions 45.

(Signed) Charles B. T. Moore
Ensign.

From Merid. to 4 P.M. Cloudy and pleasant. Light breeze from S. and W. Steaming with six boilers. Steam pressure 65 lbs. Revolutions 54. Long swell from S. W.

(Signed) James K. Cogswell
Lieut.

From 4 to 6 P.M. Cloudy. Pleasant. Light breeze from S. S. W. Steaming with six boilers. Steam pressure 65 lbs. Revolutions 52.

(Signed) Clinton K. Curtis
Lieut.

From 6 to 8 P.M. Partially clear. Pleasant. Moderate S. S. W. breeze. Cir. Cum. Nimb. clouds. At 6, mustered at quarters. At 6.25 hauled down. F. T. M. S. S. Steaming with six boilers. Steam pressure 65 lbs. Revolutions 65. Temp. of bunkers 118°.

(Signed) Samuel C. Lemly
Ensign.

From 8 to Midnight. Clear and pleasant. Light breeze from S. S. W. At 11, took in jib and spanker. At 11.30 got cast of lead, no bottom at 90 fathoms. Steaming with six boilers. Steam pressure 65 lbs. Revolutions 54.

Ensign.

(Signed) Asa Walker,
Lieut
Navigator.

Examined and found to be correct

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, At Sea

Hour.	Knots Fathoms.		Courses steered.	WINDS.		Leeway.	BAROMETER.		TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
				Direction.	Force.		Height in inches.	Ther. air'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A.M																
1	9	0	SSE	SSW	3		29.83	82	82	80	82	bcl	Cum Nimb	7	L	
2	9	0	"	"	3		29.84	82	83	81	82	ol	"	0	"	
3	9	0	"	"	3		29.86	81	83	81	82	"	"	0	"	
4	7	0	"	"	3		29.82	81	83	81	82	olr	"	0	"	
5	9	2	"	"	2		29.89	80	83	81	83	op	"	0	"	Fore and aft sail.
6	8	4	"	"	2		29.86	81	83	81	83	o	"	0	"	"
7	8	4	"	"	2		29.88	81	83	81	83	"	"	0	"	"
8	8	6	"	S	2		29.90	81	83	81	83	op	"	1	"	"
9	1 7	2 2	se by s	"	2		29.91	80	83	80	83	bcp	"	1	"	
10	8	0		"	2		29.90	80	83	82	84	bc	"	3	"	
11	8	2	"	"	2		29.87	82	85	82	84	"	"	1	"	
Noon	8	0	"	"	2		29.88	82	84	82	84	"	"	1	"	

Distance run by Log since preceding Noon 206 knots 4 fathoms.

Latitude by D. R. at Noon 5 ° 48 ' 45 " S.

Longitude by D. R. at Noon 11 ° 53 ' 00 " E.

Latitude by Observations at Noon ⊕ 5 ° 22 ' 30 " S.

Longitude by Chronometer from Forenoon Observations ⊕ 11 ° 50 ' 30 " E.

Current during the time 1 knots fms. per hour, setting to the N.

Variation of the Compass by Amplitude ⊕ observed at Sunrise ° " "

Variation of the Compass by Azimuth ⊕ observed at 7.30 A.M. 19 ° 35 " 30 " N.

Water expended during the preceding 24 hours 300 gallons.

Water during the preceding 24 hours "

Water remaining on hand fit for me at Noon 1600 "

Coal consumed during the preceding 24 hours 11 tons 630 lbs.

Coal remaining on hand at Noon 49 " 245 "

P.M.																
1	2	2	se by s	S	2		29.87	82	85	82	84	bc	Cum Nimb	2	L	Jib, main try sail
2	8	6	sse	SSW	3		29.87	82	84	82	84	"	"	5	"	and spanker
3	9	2	"	"	3		29.86	82	84	82	84	"	"	5	"	
4	8	6	"	"	3		29.82	82	84	82	84	"	Cir Cum	6	"	
5				"	2		29.80	82	84	82		"	"	7	"	
6				"	2		29.81	81	83	81		"	"	7	"	
7			At Anchor	"	2		29.83	80	83	81		"	"	7	"	
8				"	2		29.85	80	83	80		"	"	5	"	
9				"	2		29.86	80	82	80		"	"	7	"	
10				"	2		29.88	80	82	80		"	"	7	"	
11				"	2		29.89	80	82	80		"	"	7	"	
Mid.				"	2		29.89	80	82	80		"	"	7	"	

Longitude by Chronometer from Afternoon Observations ⊕ ° ' "

Longitude by Chronometer Observations] ° ' "

Variation of the Compass by Amplitude observed at Sunset ° ' "

Variation of the Compass by at ° ' "

under the command of Commander Winfield Scott Schley, U. S. Navy.
Saturday December 8th, 1877.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Cloudy and pleasant. Light breeze from S. S. W. Raining latter part of watch. At 11.30 got soundings, no bottom at 80 fathoms. Standing with six boilers. Steam pressure 60 lbs. Revolutions 52.

(Signed) James K. Cogswell
Lieut.

From 4 to 8 A.M. Cloudy. Passing showers first and last hour. Light breeze from S. and W. Steaming with six boilers. Steam pressure 60 lbs. Revolutions 52.

(Signed) Clinton K. Curtis
Lieut.

From 8 to Merid. Cloudy with passing showers. Light S. W[ester]ly breeze. Cum. Nimb. clouds. At 9.30 hauled down head sails and took in spanker. At 10, took in main try sail. Steaming with six boilers. Steam pressure 60 lbs. Revolutions 48.

(Signed) Samuel C. Lemly
Ensign.

From Merid. to 4 P.M. Cloudy. Pleasant. Light breeze from S. S. W. At 12.15 changed course to S. S. E. At 1.10 set fore and aft sail. At 1.30 sighted land on port bow. At 3, got cast of lead in 20 fathoms, soft bottom. Steaming with six boilers. Steam pressure 60 lbs. Revolutions 50.

(Signed) Charles B. T. Moore
Ensign.

From 4 to 6 P.M. Clear and pleasant. Light breeze from S. S. W. At 4.30 took in fore and aft sail. At 4.50 came to anchor off Congo Coast, in 9 fathoms of water, veering to 45 fathoms starboard chain. Position undetermined. Draught forward 13 feet 8 in. Amidships 14 feet 9 in. Aft 15 feet 10 in. Fires banked in six boilers. Steam pressure 60 lbs. Revolutions 55. Commenced distilling at 5. Current 2 knots 6 fathoms, setting to the N. N. W.

(Signed) James K. Cogswell
Lieut.

From 6 to 8 P.M. Clear and pleasant. Light breeze from S. and W. Fires banked in four boilers. Distilling.

(Signed) Clinton K. Curtis
Lieut.

From 8 to Midnight. Clear. Cool. Pleasant. Light S. S. W. breeze. Cir. Cum. clouds. Moon set at 9.15. Fires banked in four boilers. Steam pressure 30 lbs. Distilling.

(Signed) Samuel C. Lemly
Ensign.

Examined and found to be correct

(Signed) Asa Walker, Lieut
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns,
Off Coast of Congo and Congo River

Hour.	Knots	Fathoms.	Courses steered.	WINDS.		Leeway.	BAROMETER.		TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
				Direction.	Force.		Height in inches.	Ther. at'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A.M																
1				SSW	2		29.88	81	83	81	bc	Cum	9	L		
2				"	2		29.87	81	83	81	b	None	10	"		
3				"	2		29.86	81	83	81	bc	Cum	9	"		
4				"	2		29.86	81	83	81	"	"	9	"		
5				S	2		29.86	81	83	81	"	"	8	"		
6				SSE	1		29.85	80	82	80	"	Cum Nimb	1	"		
7	9	2	S by E	"	1		29.87	80	82	80	"	"	1	"		
8	9	6	"	"	1		29.88	81	84	81	"	"	3	"		
9				ESE	1		29.90	81	85	82	"	"	2	"		
10			Standing into Congo River.	SSW	1		29.88	81	86	82	"	"	3	"		
11				SW	1		29.87	82	86	83	"	"	4	"		
Noon			At Anchor	WSW	1		29.85	83	86	83	"	"	5	"		

Distance run by Log since preceding Noon

knots fathoms.

Latitude by D. R. at Noon

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000 1001 1002 1003 1004 1005 1006 1007 1008 1009 1010 1011 1012 1013 1014 1015 1016 1017 1018 1019 1020 1021 1022 1023 1024 1025 1026 1027 1028 1029 1030 1031 1032 1033 1034 1035 1036 1037 1038 1039 1040

Longitude by D. R. at Noon

0 1 22

Latitude by Observations at Noon ⊕

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Longitude by Chronometer from Forenoon Observations ⊕

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Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude \oplus observed at Sunrise

“ “ “

Variation of the Compass by Azimuth \oplus observed at

0 " "

Water expended during the preceding 24 hours

300 gallons.

Water Condensed during the preceding 24 hours

300 66

Water remaining on hand fit for me at Noon

1600

Coal consumed during the preceding 24 hours

6 tons 420 lbs.

Coal remaining on hand at Noon

42 “ 2063 “

P.M.

1	WSW	3	29.83	83	86	84	bc	Cir Cum	6	L
2	"	3	29.82	83	86	84	"	"	7	"
3	"	3	29.80	83	86	83	"	"	7	"
4	"	3	29.78	83	86	83	"	"	7	"
5	"	3	29.79	83	86	83	"	"	6	"
6	SW	2	29.80	83	86	83	"	"	5	"
7	"	2	29.80	82	85	82	"	"	5	"
8	"	2	29.82	82	84	82	"	"	7	"
9	"	1	29.84	82	84	82	"	"	7	"
10	"	1	29.86	81	83	81	"	"	7	"
11	"	1	29.86	81	83	81	"	"	7	"
Mid.	"	1	29.86	81	83	81	"	"	7	"

Longitude by Chronometer from Afternoon Observations ⊕

0 1 22

Longitude by Chronometer Observations

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Variation of the Compass by Amplitude observed at Sunset

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Variation of the Compass by

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000 1001 1002 1003 1004 1005 1006 1007 1008 1009 1010 1011 1012 1013 1014 1015 1016 1017 1018 1019 1020 1021 1022 1023 1024 1025 1026 1027 1028 1029 1030 1031 1032 1033 1034 1035 1036 1037 1038 1039 1040

under the command of Commander Winfield Scott Schley, U. S. Navy.
Sunday December 9th, 1877.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear and pleasant. Light breeze from S. S. W. Fires banked in six boilers. Distilling.

(Signed) Charles B. T. Moore
Ensign.

From 4 to 8 A.M. Cloudy and pleasant. Light airs from S. and W. At 5.45 got underway and set the course S. by E. Current N. by W. 2 1/2 knots. Draught forward 13 feet 8 in. Amidships 14 feet 9 in. Aft 15 feet 10 in. Steaming with six boilers. Steam pressure 63 lbs. Revolutions 54. Running across the mouth of the Congo, in 9 and 11 fathoms of water.

(Signed) James K. Cogswell
Lieut.

From 8 to Merid. Partially cloudy. Warm. Light breeze from S. and E. shifting to S. and W. At 9.25 came to anchor in the Congo River, in 6 fathoms of water, veering to 30 fathoms Starboard chain. Bearings at anchor. North pt. Of Sharks Pt, (pc) N. W. by W. 3/4 W. South Pt. S. W. 1/4 S. Hauled down French Ensign, which had been hoisted at the peak, and run up the American on coming to. Fires banked in six boilers. Steam pressure 20 lbs. Distilling.

(Signed) Clinton K. Curtis
Lieut.

From Merid. to 4 P.M. Clear. Warm. Moderate. W. S. W. breeze. Cir. Cum. clouds. A Portuguese schooner stood out to sea, dipped colors in passing. Fires banked in six boilers. Steam pressure 20 lbs. Distilling.

(Signed) Samuel C. Lemly
Ensign.

From 4 to 8 P.M. Clear and pleasant. Light breeze from S. W. By order of Commander, Lieut. James K. Cogswell was placed under arrest for being intoxicated while on duty. Fires banked in six boilers. Steam pressure 25 lbs. Distilling.

(Signed) Charles B. T. Moore
Ensign.

From 8 to Midnight. Clear and pleasant. Light breeze from S. W. Fires banked in six boilers. Steam pressure 20 lbs. Distilling.

(Signed) Clinton K. Curtis
Lieut.

Examined and found to be correct

(Signed) Asa Walker, Lieut
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Congo River, Africa

Hour.	Knots Fathoms.	WINDS.			BAROMETER.		TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.	
		Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. air'd.	Air Dry Bulb.	Air Wet Bulb.						Water at surface.
A.M															
1			SSW	1		29.86	81	82	80		bc	Cir Cum	7	S	
2			"	1		29.85	80	82	80		"	"	7	"	
3			"	1		29.85	80	82	80		"	"	7	"	
4			"	1		29.85	80	82	80		"	"	7	"	
5			"	1		29.86	80	82	80		"	"	7	"	
6			"	1		29.85	80	82	80		"	"	7	"	
7			SW	1		29.85	80	82	80		"	"	7	"	
8			SSE	1		29.84	81	82	80		"	"	2	"	
9			S	1		29.86	81	82	80		"	"	2	"	
10			SSW	1		29.87	81	83	81		bc	"	3	"	
11			"	1		29.89	82	83	82		"	"	4	"	
Noon			WSW	1		29.87	82	85	83		"	"	5	"	

Distance run by Log since preceding Noon

knots fathoms.

Latitude by D. R. at Noon

° ' "

Longitude by D. R. at Noon

° ' "

Latitude by Observations at Noon ⊕

° ' "

Longitude by Chronometer from Forenoon Observations ⊕

° ' "

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊕ observed at Sunrise

° ' "

Variation of the Compass by Azimuth ⊕ observed at

° ' "

Water expended during the preceding 24 hours

250 gallons.

Water Condensed during the preceding 24 hours

700 "

Water remaining on hand fit for me at Noon

2000 "

Coal consumed during the preceding 24 hours

8 tons 768 lbs.

Coal remaining on hand at Noon

34 " 1295 "

P.M.

1			WSW	1	29.85	83	85	83		bc	Cir Cum	4	S	
2			"	1	29.83	84	86	83		"	"	2	"	
3			"	1	29.81	84	85	83		"	"	2	"	
4			"	1	29.79	83	85	82		"	"	2	"	
5	Standing out of C.R.		SSW	1	29.78	81	84	81		"	"	3	"	Main try sail
6	2 0	S	SW	3	29.79	81	84	81		"	"	2	"	"
7	9 0	"	SW by S	3	29.82	81	81	80		"	"	8	"	Jib, M. try sail
8	9 2	"	SW	3	29.84	80	82	80	82	"	"	9	"	and spanker.
9	9 6	"	"	3	29.87	81	82	80	82	o	"	0	"	"
10	9 6	"	"	3	29.90	80	82	80	82	bc	"	2	"	"
11	9 6	"	"	4	29.90	80	82	80	82	"	"	1	"	"
Mid.	9 4	"	"	4	29.90	80	82	80	82	o	"	0	"	"

Longitude by Chronometer from Afternoon Observations ⊕

° ' "

Longitude by Chronometer Observations

° ' "

Variation of the Compass by Amplitude observed at Sunset

° ' "

Variation of the Compass by at

° ' "

under the command of Commander Winfield Scott Schley, U. S. Navy.
Monday December 10th, 1877.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear and pleasant. Light W. S. W. breeze. Cir. Cum. clouds. Fires banked in four boilers. Steam pressure 20 lbs. Distilling.

(Signed) Samuel C. Lemly
Ensign.

From 4 to 8 A.M. Clear and pleasant first part, overcast latter part of watch. Light variable airs. Fires banked in six boilers. Steam pressure 33 lbs. Distilling.

(Signed) Charles B. T. Moore
Ensign.

From 8 to Merid. Cloudy and warm. Light airs from S. and W. At 9.15 inspected at quarters. At 10, Tom Lay, 2nd King of Sharks Pt. And suite came on board. By order of Commander, Herman Meyer (O.S.2.C.) and E. E. Barclay (O.S.2.C.) was released from confinement. Fires banked in six boilers. Steam pressure 25 lbs. Distilling.

(Signed) Clinton K. Curtis
Lieut.

From Merid. to 4 P.M. Cloudy. Pleasant. Light breeze from W. S. W. Barometer falling. At 3, brought chain at capstan and got ready for heaving in. At 3.55 called all hands up anchor. Draught forward 13 feet 8 in. Amidships 14 feet 9 in. Aft 15 feet 10 in. At 3.40 spread fires. Steam pressure 25 lbs. Distilling.

(Signed) Samuel C. Lemly
Ensign.

From 4 to 6 P.M. Cloudy. Pleasant. Light S. W. breeze. Cir. Cum. clouds. At 4.06 got underway and stood out of Congo River. At 5.45 set course S. Padoon Point bearing (pc) E. N. E. distant four miles. At 5.50 set Main try sail. Steaming with six boilers. Steam pressure 65 lbs. Revolutions 50.

(Signed) Charles B. T. Moore
Ensign.

From 6 to 8 P.M. Clear and pleasant. Moderate breeze from S. and W. At 7.35 set jib and spanker. Steaming with six boilers. Steam pressure 63 lbs. Revolutions 54. At 8, got cast of lead in 15 fathoms, bottom, mud and gray sand.

(Signed) Clinton K. Curtis
Lieut.

From 8 to Midnight. Cloudy. Pleasant. Moderate breeze from S. and W. At 10, got cast of lead in 15 fathoms, bottom, mud and dark sand. Moon set at 10.45. At 10.15 sighted two white lights off port beam. Steaming with six boilers. Steam pressure 63 lbs. Revolutions 58.

(Signed) Samuel C. Lemly
Ensign.

Examined and found to be correct

(Signed) Asa Walker, Lieut
Navigator.

		WINDS.				BAROMETER.				TEMPERATURE.							
Hour.	Knots		Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. air'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.	State of the Weather by symbols.	Forms of Clouds, by symbols.	Prep. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.	
A.M.																	
1	9	4	S	SW	1		29.88	81	83	81	83	Cum Nimb	bc	1	S	Fore and aft sail.	
2	8	6	"	SW by S	1		29.88	81	83	81	83	"	o	0	"	except F. T. M. S. S.	
3	9	2	"	"	1		29.88	81	83	81	83	"	"	0	"		
4	9	6	"	"	1		29.88	81	83	81	82	"	bc	1	"		
5	9	4	"	SSW	2		29.88	81	83	81	82	Cir Cum Nimb	"	3	"		
6	4	4	"	"	2		29.90	81	83	81	81	"	"	1	"		
7	9	4	S 1/4 E	S	2		29.90	81	83	81	81	"	"	3	"		
8	9	0	"	S by E	2		29.92	81	83	81	81	"	"	2	"		
9	9	2	"	SSE	2		29.94	80	83	79	82	"	"	4	"		
10	4	2	s by e	SE by S	2		29.95	81	83	80	82	"	"	3	"		
	4	2	SSE														
	2	4	"														
11	2	4	s 1/2 e	"	2		29.94	83	85	82	82	"	"	3	"		
	4	4	s														
Noon	Standing in for St. Paul de Loanda			Calm	0		29.93	84	87	84	82	"	"	3	"		
Distance run by Log since preceding Noon												knots	fathoms.				
Latitude by D. R. at Noon												o	'	"			
Longitude by D. R. at Noon												o	'	"			
Latitude by Observations at Noon ☺												o	'	"			
Longitude by Chronometer from Forenoon Observations ☺												o	'	"			
Current during the time				knots	fms. per hour, setting to the												
Variation of the Compass by Amplitude ☺ observed at Sunrise												o	"	"			
Variation of the Compass by Azimuth ☺ observed at												o	"	"			
Water expended during the preceding 24 hours												250 gallons.					
Water during the preceding 24 hours												"					
Water remaining on hand fit for me at Noon												1800 "					
Coal consumed during the preceding 24 hours												8	tons	744	lbs.		
Coal remaining on hand at Noon												26	"	551	"		
P.M.																	
1	At Anchor			West	2		29.90	84	86	83		bc	Cir Cum	6	S		
2				"	2		29.87	83	86	83		"	"	8	"		
3				"	2		29.87	83	85	83		"	"	8	"		
4				"	2		29.87	82	85	83		"	"	8	"		
5				"	1		29.88	82	84	82		"	"	5	"		
6				"	1		29.88	80	83	81		"	"	5	"		
7				"	1		29.88	80	82	80		"	"	5	"		
8				"	1		29.90	80	82	80		"	"	3	"		
9				"	1		29.91	80	82	80		"	"	5	"		
10				"	1		29.93	80	82	80		"	"	3	"		
11				"	1		29.94	80	82	80		"	Cum Nimb	0	"		
Mid.				Calm	1		29.95	80	82	80		"	"	0	"		
Longitude by Chronometer from Afternoon Observations ☺												o	'	"			
Longitude by Chronometer Observations												o	'	"			
Variation of the Compass by Amplitude												o	'	"			
Variation of the Compass by												o	'	"			

under the command of Commander Winfield Scott Schley, U. S. Navy.
Tuesday December 11th, 1877.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Overcast. Cloudy. Light breeze from S and W. At 1, got cast of lead, no bottom at 27 fathoms. At 1.40 took in fore and aft sail. At 4, got cast of lead, no bottom at 28 fathoms. Steam pressure 63 lbs. Revolutions 58.

(Signed) Charles B. T. Moore
Ensign.

From 4 to 8 A.M. Cloudy. Pleasant. Cir. Cum. Nimb. clouds. Light S.W. breeze. At 5, sighted high land abeam. At 5.30 changed course to S. 1/4 E. Sighted a steamer standing to N. Steaming with six boilers. Steam pressure 60 lbs. Revolutions 51.

(Signed) Richard Henderson
Mid.

From 8 to Merid. Cloudy. Warm. Light breeze from S. and E. streaming with six boilers. At 9.15 inspected at quarters. At 9, changed course to S. by E. At 9.30 to S. S. E. At 10.15 to S 1/2 E. At 10.30 to S. Charles Green (Gr. M.) was honorably discharged from ship and from the Naval Service, his time of enlistment having expired. Standing in for St Paul de Loanda. Steam pressure 60 lbs. Revolutions 51.

(Signed) Clinton K. Curtis
Lieut.

From Merid. to 4 P.M. Clear and warm, with moderate breeze from West. At 12.45 anchored in Bay of St Paul de Loanda, with port anchor, 14 1/2 fathoms water, 45 fathoms chain. Bearings at anchorage. Fort San Miguel (pc) W. S. W. 1/4 W. Fort San Francisco (pc) S. 1/2 E. Health Officer came on board and pratique. Received visits from English Gunboat "Swallow", and from Portuguese Senior Officer's ship. H.B.M. Consul and American vice commercial agent called on Commanding Officer. At 1.30 English Gunboat "Swallow" left the harbor. Draught forward 13 feet 6 in. Amidships 14 feet 8 in. Aft 15 feet 9 in. Banked fires in six boilers. Steam pressure 20 lbs. Distilling.

(Signed) Samuel C. Lemly
Ensign.

From 4 to 8 P.M. Clear and pleasant. Light breeze from W. At 5.25 hauled fires in two boilers. Steam pressure 25 lbs. Distilling.

(Signed) Charles B. T. Moore
Ensign.

From 8 to Midnight. Cloudy. Pleasant. Light airs from W. and calm. Fires banked in four boilers. Steam pressure 20 lbs. Distilling.

(Signed) Clinton K. Curtis
Lieut.

Examined and found to be correct

(Signed) Asa Walker, Lieut
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, St Paul de Loanda

Hour.	Knots Fathoms.	WINDS.		Leeway.	BAROMETER.		TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
		Courses steered.	Direction.	Force.	Height in inches.	Ther. at't'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A.M														
1			Calm	0	29.96	80	81	80		bc	Cum Nimb	2	S	
2			"	0	29.95	80	81	80		or	"	0	"	
3			"	0	29.94	80	81	80		"	"	0	"	
4			"	0	29.94	80	81	80		"	"	0	"	
5			"	0	29.94	79	80	78		"	"	0	"	
6			"	0	29.96	79	80	78		"	"	0	"	
7			E	1	29.97	79	80	78		bcr	"	1	"	
8			"	1	29.98	79	80	78		bc	"	1	"	
9			Calm	0	29.98	80	81	79		ol	"	0	"	
10			"	0	29.98	80	82	80		"	"	0	"	
11			SW	1	29.97	80	82	80		bc	"	1	"	
Noon			"	1	29.97	80	82	80		"	"	1	"	

Distance run by Log since preceding Noon

knots fathoms.

Latitude by D. R. at Noon

° ' "

Longitude by D. R. at Noon

° ' "

Latitude by Observations at Noon ⊕

° ' "

Longitude by Chronometer from Forenoon Observations ⊕

° ' "

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊕ observed at Sunrise

° " "

Variation of the Compass by Azimuth ⊕ observed at

° " "

Water expended during the preceding 24 hours

350 gallons.

Water Condensed during the preceding 24 hours

1000 "

Water remaining on hand fit for me at Noon

2500 "

Coal consumed during the preceding 24 hours

1 tons 1010 lbs.

Coal remaining on hand at Noon

24 " 1781 "

P.M.

1	WSW	1	29.94	81	83	81	bc	Cir Cum	3	S
2	W	1	29.92	82	84	82	"	"	5	"
3	"	1	29.89	82	84	82	"	"	5	"
4	"	1	29.87	82	84	82	"	"	6	"
5	"	1	29.87	81	83	81	"	"	6	"
6	"	1	29.88	80	82	80	"	"	4	"
7	"	1	29.89	80	81	79	"	"	4	"
8	"	1	29.89	80	80	79	"	"	9	"
9	"	1	29.92	80	80	79	"	"	9	"
10	"	1	29.95	79	81	80	"	"	9	"
11	"	1	29.93	78	81	80	"	"	9	"
Mid.	"	1	29.92	79	81	79	"	"	9	"

Longitude by Chronometer from Afternoon Observations ⊕

° ' "

Longitude by Chronometer Observations]

° ' "

Variation of the Compass by Amplitude observed at Sunset

° ' "

Variation of the Compass by at

° ' "

under the command of Commander Winfield Scott Schley, U. S. Navy.
Wednesday December 12th, 1877.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Overcast and rainy. Calm. Fires banked in two boilers. Steam pressure 22 lbs. Distilling.

(Signed) Samuel C. Lemly
Ensign.

From 4 to 8 A.M. Overcast and rainy first three hours, cloudy and threatening last hour. Calm and light airs from E. Fires banked in two boilers. Steam pressure 25 lbs. Distilling.

(Signed) W. J. Hannum
Midn.

From 8 to Merid. Overcast. Passing showers. Calm and light S. W[ester]ly airs. At 9.15 inspected at quarters. Commanding Officer and staff, paid an official visit to the Governor. Received in ships company Charles Green (Gr.M.) having re-enlisted for three years general service, from this date inclusive. A small Dutch steamer left the harbor. Fires banked in two boilers. Steam pressure 25 lbs. Distilling.

(Signed) Charles B. T. Moore
Ensign.

From Merid. to 4 P.M. Cloudy. Warm. Light airs from W. At 1.25 loosed sail. Fires banked in two boilers. Steam pressure 25 lbs. Distilling.

(Signed) W. H. Allen
Midn.

From 4 to 8 P.M. Cloudy and pleasant. Light airs from W. At 4.35 furled sail. Fires banked in two boilers. Distilling.

(Signed) Samuel C. Lemly
Ensign.

From 8 to Midnight. Cloudy. Pleasant. Bright moonlight. Cir. Cum. clouds. Light S. W[ester]ly breeze. Moon set at 12. Fires banked in two boilers. Steam pressure 25 lbs. Distilling.

(Signed) Charles B. T. Moore
Ensign.

(Signed) Asa Walker,
Lieut
Navigator.

Examined and found to be correct

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns,
St Paul de Loanda

Hour.	Knots Fathoms.	WINDS.			BAROMETER.		TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in Tens.	State of the Sea.	Record of the sail the vessel is under at end of watch.
		Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. air'd.	Air Dry Bulb.	Air Wet Bulb.					
A.M														
1			W	1		29.92	80	82	80	bc	Cum	8	S	
2			"	1		29.93	80	82	80	"	Cir Cum	8	"	
3			SW	1		29.92	80	82	80	"	"	5	"	
4			S	1		29.90	80	82	80	"	Cir Cum Nimb	6	"	
5			Calm	0		29.91	80	81	79	"	"	4	"	
6			"	0		29.92	78	81	80	"	"	2	"	
7			"	0		29.92	79	81	81	"	"	1	"	
8			"	0		29.94	80	82	81	"	"	1	"	
9			NW	1		29.95	80	82	80	"	"	1	"	
10			"	1		29.95	80	82	80	"	"	2	"	
11			"	1		29.95	82	83	80	"	"	2	"	
Noon			"	1		29.93	82	84	82	"	"	2	"	

Distance run by Log since preceding Noon

knots fathoms.

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000 1001 1002 1003 1004 1005 1006 1007 1008 1009 1010 1011 1012 1013 1014 1015 1016 1017 1018 1019 1020 1021 1022 1023 1024 1025 1026 1027 1028 1029 1030 1031 1032 1033 1034 1035 1036 1037 1038 1039 1040

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99

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Current during the time knots fms. per hour, setting to the

○ “ ”

0 " 66

300 gallons

700 66

2800

tons 1450 lbs.

24 " 331 "

P.M.

1	W	2	29.91	82	84	82	bc	Cir Cum Mimb	5 5	S
---	---	---	-------	----	----	----	----	-----------------	--------	---

2	"	2	29.88	82	84	82	"	"	6	"
---	---	---	-------	----	----	----	---	---	---	---

3	"	2	29.85	82	84	82	"	"	6	"
---	---	---	-------	----	----	----	---	---	---	---

4	"	2	29.82	82	84	82	"	"	6	"
---	---	---	-------	----	----	----	---	---	---	---

5	"	2	29.82	82	83	82	"	Cir Cum	6	"
---	---	---	-------	----	----	----	---	---------	---	---

6	"	2	29.81	81	82	81	"	"	7	"
---	---	---	-------	----	----	----	---	---	---	---

7	WSW	2	29.83	80	82	80	"	"	6	"
---	-----	---	-------	----	----	----	---	---	---	---

8	"	2	29.85	80	82	80	"	"	8	"
---	---	---	-------	----	----	----	---	---	---	---

9	"	2	29.85	80	82	80	"	"	8	"
---	---	---	-------	----	----	----	---	---	---	---

10	"	1	29.89	80	82	80	"	"	8	"
----	---	---	-------	----	----	----	---	---	---	---

11	"	1	29.89	80	82	80	"	"	8	"
----	---	---	-------	----	----	----	---	---	---	---

Mid.	"	1	29.89	80	82	80	"	"	8	"
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under the command of Commander Winfield Scott Schley, U. S. Navy.
Thursday December 13th, 1877.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear and pleasant. Light variable airs. Fires banked in two boilers. Steam pressure 25 lbs. Distilling.

(Signed) Clinton K. Curtis
Lieut.

From 4 to 8 A.M. Cloudy and pleasant. Calm. Received on board 190 lbs fresh beef. Fires banked in two boilers. Distilling.

(Signed) T. D. Griffin
Midn.

From 8 to Merid. Cloudy. Warm. Light airs from N. and W. Barometer steady. By order of Commander, G.H. Kalin (O.S.2.C.) was placed in solitary confinement, on bread and water, for direct disobedience of orders. John Hall (O.S.2.C.) was given four extra duty for missing muster. An Aide de Camp to Governor General of the provinces called on Commanding Officer. Unbent spanker and stowed it below. At 10, hauled fires in two remaining boilers. Portuguese Mail Steamer "China" steamed out of the harbor.

(Signed) Samuel C. Lemly
Ensign.

From Merid. to 4 P.M. Clear. Warm. Moderate W[ester]ly breeze. Cir. Cum. Nimb. clouds. Commanding Officer of Portuguese Flagship paid an official visit to the Commander. Commenced coaling ship.

(Signed) Charles B. T. Moore
Ensign.

From 4 to 8 P.M. Clear and pleasant. Light breeze from N. Engaged in coaling ship first part of watch.

(Signed) Clinton K. Curtis
Lieut.

From 8 to Midnight. Clear and pleasant. Light airs from W. S. W. Bright moonlight.

(Signed) Samuel C. Lemly
Ensign.

Examined and found to be correct

(Signed) Asa Walker, Lieut
Navigator.

Hour.	Knots Fathoms.	Courses steered.	WINDS.		BAROMETER.		TEMPERATURE.				State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in fths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
			Direction.	Force.	Leeway.	Height in inches.	Ther. alt'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A.M															
1			WSW	1		29.88	78	81	79		bc	Cir Cum	6		S
2			"	1		29.87	78	81	79		"	Cir Cum Nimb	3		"
3			SW	1		29.87	78	81	79		"	Cir Nimb	0		"
4			"	1		29.86	78	81	79		"	"	0		"
5			S	1		29.86	78	81	79		"	Cir Cum	6		"
6			SSE	1		29.87	79	81	79		"	"	4		"
7			"	1		29.90	79	81	80		"	"	3		"
8			Calm	0		29.89	79	81	80		"	"	3		"
9			N	1		29.90	80	82	80		"	"	5		"
10			"	1		29.91	80	82	81		"	"	7		"
11			"	1		29.92	80	82	81		"	"	8		"
Noon			"	1		29.92	80	82	81		"	"	9		"

knots fathoms.

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000 1001 1002 1003 1004 1005 1006 1007 1008 1009 1010 1011 1012 1013 1014 1015 1016 1017 1018 1019 1020 1021 1022 1023 1024 1025 1026 1027 1028 1029 1030 1031 1032 1033 1034 1035 1036 1037 1038 1039 1040

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99

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0 1 22

○ “ ”

0 " "

“ “ “

300 gallons

66

2500

tons 250 lbs.

24 “ 81 “

1	W	1	29.90	81	83	81	bc	Cir Cum	9	S
2	"	1	29.86	82	84	81	"	"	9	"
3	"	2	29.82	82	84	80	"	"	7	"
4	"	2	29.78	82	84	80	"	"	7	"
5	"	3	29.79	81	84	80	"	"	7	"
6	"	3	29.80	81	83	79	"	"	7	"
7	"	3	29.81	80	82	79	"	"	7	"
8	"	3	29.82	80	81	79	"	"	8	"
9	"	2	29.83	80	82	80	"	"	8	"
10	"	1	29.84	80	82	80	"	"	9	"
11	"	1	29.86	80	81	79	"	"	8	"
Mid.	"	1	29.87	80	80	79	"	"	8	"

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0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000 1001 1002 1003 1004 1005 1006 1007 1008 1009 1010 1011 1012 1013 1014 1015 1016 1017 1018 1019 1020 1021 1022 1023 1024 1025 1026 1027 1028 1029 1030 1031 1032 1033 1034 1035 1036 1037 1038 1039 1040

under the command of Commander Winfield Scott Schley, U. S. Navy.
Friday December 14th, 1877.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear first part, overcast latter part of watch. Cool. Pleasant. Light land breeze. At 12.45 Moon set.

(Signed) Charles B. T. Moore
Ensign.

From 4 to 8 A.M. Cloudy. Pleasant. Light variable airs and calm. Engaged in coaling ship. Received onboard, for crew 180 lbs. fresh beef.

(Signed) W. H. Allen
Midn.

From 8 to Merid. Clear and warm. Light airs from N. A coal lighter came alongside at 11.

(Signed) Clinton K. Curtis
Lieut.

From Merid. to 4 P.M. Clear. Warm. Light W[ester]ly airs. Barometer falling. Received onboard in Equipment Dept. six tons of coal.

(Signed) Samuel C. Lemly
Ensign.

From 4 to 8 P.M. Clear. Warm. Moderate W[ester]ly breeze. Cir. Cum. clouds. Engaged in coaling ship. Received in Pay Dept. 300 lbs and one keg of sugar.

(Signed) Charles B. T. Moore
Ensign.

From 8 to Midnight. Clear and pleasant. Light airs from S. and W. Bright moonlight.

(Signed) Clinton K. Curtis
Lieut.

(Signed) Asa Walker,
Lieut
Navigator.

Examined and found to be correct

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, St Paul de Loanda

Hour.	Knots Fathoms.	Courses steered.	WINDS.		Leeway.	BAROMETER.		TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
			Direction.	Force.		Height in inches.	Ther. air'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A.M															
1			SSW	1		29.87	80	80	78		bc	Cir Cum	8	S	
2			"	1		29.87	80	80	78		"	"		"	
3			"	1		29.87	80	80	78		"	"		"	
4			"	1		29.87	78	80	78		"	"		"	
5			Calm	0		29.89	78	80	79		"	Cir Cum Nimb		"	
6			"	0		29.92	79	80	79		"	"		"	
7			"	0		29.94	79	81	79		"	"		"	
8			E	1		29.95	80	81	80		"	"		"	
9			NE	1		29.93	80	82	80		"	Cir Cum		"	
10			Calm	0		29.90	81	83	81		"	"		"	
11			NNW	1		29.89	82	83	81		"	"		"	
Noon			"	1		29.88	82	84	82		"	"		"	

Distance run by Log since preceding Noon

knots fathoms.

Latitude by D. R. at Noon

° ' "

Longitude by D. R. at Noon

° ' "

Latitude by Observations at Noon ⊕

° ' "

Longitude by Chronometer from Forenoon Observations ⊕

° ' "

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊕ observed at Sunrise

° " "

Variation of the Compass by Azimuth ⊕ observed at

° " "

Water expended during the preceding 24 hours

250 gallons.

Water during the preceding 24 hours

"

Water remaining on hand fit for me at Noon

2100 "

Coal consumed during the preceding 24 hours

tons 250 lbs.

Coal remaining on hand at Noon

23 " 2071 "

P.M.

1			W	1	29.86	82	84	82		bc	Cir Cum	8	S	
2			"	1	29.85	82	84	82		"	"	8	"	
3			"	2	29.82	80	83	81		"	"	8	"	
4			"	2	29.79	81	82	80		"	"	8	"	
5			"	2	29.81	8	82	80		"	"	8	"	
6			"	1	29.81	80	82	80		"	"	8	"	
7			SW	2	29.83	81	82	80		"	"	8	"	
8			"	2	29.83	81	82	80		"	"	8	"	
9			WSW	2	29.85	81	81	79		"	"	7	"	
10			"	2	29.87	81	81	79		"	"	6	"	
11			"	1	29.87	81	81	79		"	"	6	"	
Mid.			Calm	0	29.86	80	81	79		"	"	8	"	

Longitude by Chronometer from Afternoon Observations ⊕

° ' "

Longitude by Chronometer Observations]

° ' "

Variation of the Compass by Amplitude observed at Sunset

° ' "

Variation of the Compass by at

° ' "

under the command of Commander Winfield Scott Schley, U. S. Navy.
Saturday December 15th, 1877.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear and pleasant. Light airs from S. and W. Moon set at one.

(Signed) Samuel C. Lemly
Ensign.

From 4 to 8 A.M. Partially clear. Warm. Calm. Cir. Cum. Nimb. clouds. Received in Pay Dept.
190 lbs fresh beef and 149 lbs fresh bread.

(Signed) R. Henderson
Midn.

From 8 to Merid. Cloudy. Warm. Light variable airs and calm. Engaged in coaling ship latter part
of watch.

(Signed) Charles B. T. Moore
Ensign.

From Merid. to 4 P.M. Clear and pleasant. Light breeze from W. Lieutenant James K. Cogswell
was released from arrest by order of Commander. A coal lighter came alongside at 3.45.
Engaged in coaling ship latter part of watch.

(Signed) Clinton K. Curtis
Lieut.

From 4 to 8 P.M. Clear. Pleasant. Light breeze from S. and W. Engaged in coaling ship.

(Signed) Samuel C. Lemly
Ensign.

From 8 to Midnight. Clear and pleasant. Light breeze from W. S. W. and calm. Bright moonlight.

(Signed) James K. Cogswell
Lieut.

(Signed) Asa Walker,
Lieut
Navigator.

Examined and found to be correct

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, St. Paul de Loanda

Hour.	Knots Fathoms.	WINDS.		BAROMETER.			TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
		Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.				
A.M														
1			SE	2		29.86	80	80	79	bc	Cum	8	S	
2			"	1		29.85	80	80	78	"	"	8	"	
3			"	1		29.89	80	80	78	"	"	8	"	
4			"	1		29.86	80	80	78	"	Cir Cum	8	"	
5			"	1		29.87	79	81	78	"	"	8	"	
6			Calm	0		29.88	79	82	78	"	"	8	"	
7			"	0		29.89	79	82	78	"	"	8	"	
8			NE	1		29.90	80	82	78	"	"	8	"	
9			NNE	1		29.89	80	82	79	"	"	5	"	
10			N	1		29.88	80	82	80	"	"	6	"	
11			"	1		29.87	81	83	80	"	"	5	"	
Noon			"	1		29.85	82	83	81	"	"	7	"	

Distance run by Log since preceding Noon

knots fathoms.

Latitude by D. R. at Noon

° ' "

Longitude by D. R. at Noon

° ' "

Latitude by Observations at Noon ⊕

° ' "

Longitude by Chronometer from Forenoon Observations ⊕

° ' "

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊕ observed at Sunrise

° " "

Variation of the Compass by Azimuth ⊕ observed at

° " "

Water expended during the preceding 24 hours

300 gallons.

Water during the preceding 24 hours

"

Water remaining on hand fit for me at Noon

1700 "

Coal consumed during the preceding 24 hours

tons 250 lbs.

Coal remaining on hand at Noon

23 " 1821 "

P.M.

1		W	2		29.82	80	83	80	bc	Cir Cum	8	S	
2		"	1		29.80	81	83	80	"	"	8	"	
3		WNW	3		29.75	81	83	80	"	"	8	"	
4		"	2		29.75	81	83	80	"	"	8	"	
5		W	2		29.77	81	83	80	"	"	8	"	
6		"	2		29.79	81	81	80	"	"	7	"	
7		"	2		29.80	80	82	80	"	"	5	"	
8		"	2		29.80	80	82	80	"	"	3	"	
9		WSW	2		29.81	80	82	80	"	"	0	"	
10		"	1		29.83	80	82	80	"	"	2	"	
11		SW	2		29.82	80	81	80	"	"	2	"	
Mid.		"	2		29.81	80	81	80	"	"	3	"	

Longitude by Chronometer from Afternoon Observations ⊕

° ' "

Longitude by Chronometer Observations]

° ' "

Variation of the Compass by Amplitude observed at Sunset

° ' "

Variation of the Compass by at

° ' "

under the command of Commander Winfield Scott Schley, U. S. Navy.
Sunday December 16th, 1877.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear and pleasant. Light airs from S. and W.

(Signed) Clinton K. Curtis
Lieut.

From 4 to 8 A.M. Clear. Pleasant. Calm and light variable airs. Cir. Cum. clouds. Received in
Pay Dept. 190 lbs. fresh beef.

(Signed) Samuel C. Lemly
Ensign.

From 8 to Merid. Clear. Warm. Light airs from N. At 9.30 Comdg Officer inspected ship and
crew at quarters. Afterwards read prayers. By order of Commanding Officer, Geo. H Kahn
(O.S.2.C.) was released from confinement.

(Signed) Charles B. T. Moore
Ensign.

From Merid. to 4 P.M. Clear and pleasant. Light breeze from N. and W.

(Signed) James K. Cogswell
Lieut.

From 4 to 8 P.M. Clear and pleasant. Light W[ester]ly breeze. Barometer rising.

(Signed) Clinton K. Curtis
Lieut.

From 8 to Midnight. Cloudy. Pleasant. Light breeze from S. and W. Obscured moonlight.

(Signed) Charles B. T. Moore
Ensign.

(Signed) Asa Walker,
Lieut
Navigator.

Examined and found to be correct

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, St Paul de Loanda

Hour.	Knots Fathoms.	WINDS.				BAROMETER.		TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prog. Of Clear Sky, in 10ths.	Stat e of the Sea.	Record of the sail the vessel is under at end of watch.
		Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. Atf.d.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A.M															
1			S	1		29.81	79	80	79		bc	Cum Nimb	2		S
2			"	1		29.81	79	80	79		"	"	1		"
3			Calm	0		29.81	79	80	79		"	"	5		"
4			"	0		29.81	79	80	79		"	"	6		"
5			"	0		29.80	79	81	79		"	"	4		"
6			"	0		29.80	79	81	79		"	"	2		"
7			NE	1		29.82	79	82	79		"	"	2		"
8			"	1		29.84	79	82	80		"	"	2		"
9			Calm	0		29.84	80	83	81		"	Cir Cum Nimb	3		"
10			"	0		29.83	81	83	82		"	"	2		"
11			"	0		29.82	82	84	82		"	"	3		"
Noon			NW	1		29.82	82	84	83		"	"	2		"

Distance run by Log since preceding Noon knots fathoms.

Latitude by D. R. at Noon ° ' "

Longitude by D. R. at Noon ° ' "

Latitude by Observations at Noon ⊕ ° ' "

Longitude by Chronometer from Forenoon Observations ⊕ ° ' "

Current during the time knots fms. per hour, setting to the ° ' "

Variation of the Compass by Amplitude ⊕ observed at Sunrise ° ' "

Variation of the Compass by Azimuth ⊕ observed at ° ' "

Water expended during the preceding 24 hours 250 gallons.

Water during the preceding 24 hours "

Water remaining on hand fit for me at Noon 1300 "

Coal consumed during the preceding 24 hours tons 250 lbs.

Coal remaining on hand at Noon 23 " 1581 "

P.M.														
1			West	1		29.80	82	84	83	bc	Cir Cum	2	S	
2			"	1		29.79	82	84	83	"	"	1	"	
3			"	2		29.79	82	84	83	"	"	3	"	
4			"	1		29.75	82	85	83	"	"	2	"	
5			"	1		29.75	81	84	82	"	"	4	"	
6			"	1		29.76	80	83	81	"	"	4	"	
7			"	2		29.76	80	82	80	"	"	5	"	
8			"	1		29.76	80	82	80	"	"	6	"	
9			"	1		29.79	80	82	80	"	"	4	"	
10			"	1		29.82	80	82	80	"	"	5	"	
11			"	1		29.83	80	82	80	"	"	4	"	
Mid.			"	1		29.84	80	82	82	"	"	4	"	

Longitude by Chronometer from Afternoon Observations ⊕ ° ' "

Longitude by Chronometer Observations] ° ' "

Variation of the Compass by Amplitude observed at Sunset ° ' "

Variation of the Compass by at ° ' "

under the command of Commander Winfield Scott Schley, U. S. Navy.
Monday December 17th, 1877.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Cloudy and pleasant. Light airs from S. first part, calm latter part of watch. At 1, H.B.M. Corvette "Swallow" came in and anchored.

(Signed) James K. Cogswell
Lieut.

From 4 to 8 A.M. Cloudy. Pleasant. Calm and light airs from N. and E. Barometer rising.
Engaged in coaling ship.

(Signed) Clinton K. Curtis
Lieut.

From 8 to Merid. Cloudy. Sultry. Calm. Commander paid an official visit to the "Swallow". By order of Commander the following punishments were inflicted. E. Parker (Lds) for repeated disobedience of orders and lying, solitary confinement on bread and water. Asa Mitchell (Lds) disobedience of orders, four hours extra duty. J. V. Marion (O.S.2.C.) for lying, 24 hours extra duty. C. J. Owen (O.S.2.C.) for shirking and insolence to Petty Officer, 12 hours extra duty.
Engaged in coaling ship.

(Signed) Samuel C. Lemly
Ensign.

From Merid. to 4 P.M. Cloudy. Warm. Light airs from W. Engaged in coaling ship.

(Signed) Charles B. T. Moore
Ensign.

From 4 to 8 P.M. Cloudy and pleasant. Light airs from W. Finished coaling. Received onboard 115 tons of coal.

(Signed) James K. Cogswell
Lieut.

From 8 to Midnight. Clear. Pleasant. Light W[ester]ly airs. Cir. Cum. clouds. Bright moonlight.

(Signed) Samuel C. Lemly
Ensign.

(Signed) Asa Walker,
Lieut
Navigator.

Examined and found to be correct

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, St Paul de Loanda

Hour.	Knots Fathoms.	WINDS.		BAROMETER.		TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
		Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. at'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.			
A.M													
1			West	1		29.83	80	81	79	bc	Cum Nimb	2	S
2			Calm	0		29.81	80	81	79	o	"	0	"
3			WSW	1		29.80	80	81	79	bc	"	2	"
4			"	1		29.81	80	81	80	"	"	1	"
5			Calm	0		29.81	80	81	80	o	"	0	"
6			"	0		29.82	80	81	80	"	"	0	"
7			"	0		29.83	80	81	80	"	"	0	"
8			S	1		39.84	80	81	80	"	"	0	"
9			NW	1		29.84	80	82	80	bc	"	2	"
10			"	1		29.83	81	84	82	"	"	3	"
11			"	1		29.81	82	85	82	"	"	4	"
Noon			"	1		29.81	83	86	83	"	"	4	"

Distance run by Log since preceding Noon

knots fathoms.

Latitude by D. R. at Noon

° ' "

Longitude by D. R. at Noon

° ' "

Latitude by Observations at Noon ⊕

° ' "

Longitude by Chronometer from Forenoon Observations ⊕

° ' "

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊕ observed at Sunrise

° ' "

Variation of the Compass by Azimuth ⊕ observed at

° ' "

Water expended during the preceding 24 hours

250 gallons.

Water during the preceding 24 hours

"

Water remaining on hand fit for me at Noon

1000 "

Coal consumed during the preceding 24 hours

tons 1810 lbs.

Coal remaining on hand at Noon

140 " 881 "

P.M.

1		West	2		29.78	83	86	83	bc	Cir Cum Nimb	3	S
2		"	3		29.75	83	86	83	"	"	4	"
3		"	3		29.72	82	85	82	"	"	4	"
4		"	3		29.70	81	84	81	"	"	3	"
5		"	3		29.71	81	84	81	"	Cum Nimb	3	"
6		"	2		29.72	81	83	81	"	"	2	"
7		"	2		29.72	81	83	81	"	"	0	"
8		"	1		29.73	81	83	81	"	"	0	"
9		"	1		29.77	81	83	81	"	"	0	"
10		SW	1		29.80	81	83	81	"	"	0	"
11		"	1		29.81	81	83	81	"	"	0	"
Mid.		Calm	0		29.81	81	83	81	"	"	0	"

Longitude by Chronometer from Afternoon Observations ⊕

° ' "

Longitude by Chronometer Observations

° ' "

Variation of the Compass by Amplitude observed at Sunset

° ' "

Variation of the Compass by

at

° ' "

under the command of Commander Winfield Scott Schley, U. S. Navy.
Tuesday December 18th, 1877.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Cloudy. Pleasant. Light airs from W. and calm.

(Signed) Charles B. T. Moore
Ensign.

From 4 to 8 A.M. Overcast. Calm first part, light airs from S. last hour of watch. Received in Pay
Dept. 190 lbs fresh beef and 149 fresh bread.

(Signed) James K. Cogswell
Lieut.

From 8 to Merid. Partially cloudy. Pleasant. Light N. W. breeze. At 12, H.B.M. Corvette
"Swallow" left the harbor. Exchanged colors.

(Signed) Clinton K. Curtis
Lieut.

From Merid. to 4 P.M. Partially clear. Warm. Moderate N[orther]ly breeze. Cir. Cum. Nimb.
clouds.

(Signed) Samuel C. Lemly
Ensign.

From 4 to 8 P.M. Cloudy first part. Overcast latter part of watch. Light breeze from W.

(Signed) Charles B. T. Moore

From 8 to Midnight. Overcast and cloudy. Light sprinkling of rain during watch. Obscured
moonlight.

(Signed) Clinton K. Curtis
Lieut.

(Signed) Asa Walker,
Lieut
Navigator.

Examined and found to be correct

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, St Paul de Loanda

Hour.	Knots Fathoms.	WINDS.		BAROMETER.			TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. Of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
		Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. Attd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.				
A.M														
1			Calm	0		29.80	81	83	81	bc	Cum Nimb	1	S	
2			"	0		29.79	81	82	81	"	"	1	"	
3			E	1		29.77	80	81	80	"	"	1	"	
4			Calm	0		29.75	80	81	80	"	"	1	"	
5			"	0		29.77	80	81	80	o	"	0	"	
6			"	0		29.78	80	81	80	o	"	0	"	
7			"	0		29.79	80	82	81	o	"	0	"	
8			"	0		29.80	80	82	81	o	"	0	"	
9			NNW	1		29.79	80	83	82	om	"	0	"	
10			"	1		29.78	80	83	82	"	"	0	"	
11			"	1		29.78	81	84	82	"	"	0	"	
Noon			"	1		29.78	82	84	83	"	"	0	"	

Distance run by Log since preceding Noon

knots

fathoms.

Latitude by D. R. at Noon

o

i

"

Longitude by D. R. at Noon

o

i

"

Latitude by Observations at Noon ⊕

o

i

"

Longitude by Chronometer from Forenoon Observations ⊕

o

i

"

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊕ observed at Sunrise

o

"

"

Variation of the Compass by Azimuth ⊕ observed at

o

"

"

Water expended during the preceding 24 hours

250 gallons.

Water during the preceding 24 hours

"

Water remaining on hand fit for me at Noon

700 "

Coal consumed during the preceding 24 hours

1

tons

1636

lbs.

Coal remaining on hand at Noon

138

"

1457

"

P.M.

1		West	1	29.75	82	84	82	bc	Cum Nimb	2	S	
2		"	1	29.74	83	84	82	"	"	3	"	
3		"	1	29.71	83	84	82	"	"	4	"	
4		"	1	29.69	83	83	81	"	"	4	"	
5		"	2	29.70	82	83	81	"	Cir Cum	4	"	
6		"	3	29.70	82	82	81	"	"	3	"	
7		"	2	29.71	81	82	81	"	"	3	"	
8		"	1	29.72	80	82	81	"	"	2	"	
9		"	1	29.76	80	82	81	om	"	0	"	
10		"	1	29.78	82	82	80	"	"	0	"	
11		"	1	29.78	82	82	80	o	"	0	"	
Mid.		"	1	29.79	82	82	80	"	"	0	"	

Longitude by Chronometer from Afternoon Observations ⊕

o

i

"

Longitude by Chronometer Observations]

o

i

"

Variation of the Compass by Amplitude observed at Sunset

o

i

"

Variation of the Compass by at

o

i

"

under the command of Commander Winfield Scott Schley, U. S. Navy.
Wednesday December 19th, 1877.

[Editor's Note: The following was attached to the log entry for December 19, 1877.]

Stores received in Paymaster Department.

5678 lbs Bread.	600 lbs Pickles
7 1/2 Bbls Beef.	3788 lbs Sugar
6 1/2 Bbls Pork.	1 Chest Tea.
275 lbs Preserved Meat	500 lbs Coffee.
8 Bbls Flour.	398 lbs Butter.
800 lbs Rice.	100 gals. Vinegar.

Stores received in Engineers Department.

100 lbs Red Lead	3 Bbls Slacked Lime.
100 lbs White Lead.	12 Water Buckets.
275 lbs Sat Soda.	12 Files.
1 Ream Emery Cloth.	

Equipment Department 1 1/2 Cords Wood.

under the command of Commander Winfield Scott Schley, U. S. Navy.
Wednesday December 19th, 1877.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Cloudy. Pleasant. Calm. Obscured moonlight.

(Signed) Samuel C. Lemly
Ensign.

From 4 to 8 A.M. Overcast. Pleasant. Calm. At 6, started fires in two boilers. At 8, crossed topgallant yards and loosed sail to a buntline. Received in Pay Dept. 190 lbs fresh beef and 149 lbs fresh bread.

(Signed) Charles B. T. Moore
Ensign.

From 8 to Merid. Overcast. Pleasant. Hazy. Light airs from N. N. W. At 9.15 inspected at quarters. Exercised 1st and 2nd Divs. At great guns, Marine Guard at small arms.

(Signed) James K. Cogswell
Lieut.

From Merid. to 4 P.M. Partially cloudy. Pleasant. Light W[ester]ly airs. Barometer falling. At 1, furled sail. At 2.25 started distilling. Steam pressure 25 lbs.

(Signed) Clinton K. Curtis
Lieut.

From 4 to 8 P.M. Partially clear. Pleasant. Moderate W[ester]ly breeze. Cir. Cum. clouds. At sunset sent down topgallant yards. Received stores in Paymaster, Engineer and Equipment Dept, as per. Appended lists. Fires banked in two boilers. Steam pressure 25 lbs. Distilling.

(Signed) Samuel C. Lemly
Ensign.

From 8 to Midnight. Overcast. Pleasant. Light airs from W. Fires banked in two boilers. Steam pressure 25 lbs. Distilling.

(Signed) James K. Cogswell
Lieut.

(Signed) Asa Walker,
Lieut
Navigator.

Examined and found to be correct

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns,
St Paul de Loando

Hour.	Knots Fathoms.	Courses steered.	WINDS.		Leeway.	BAROMETER.		TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. Of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
			Direction.	Force.		Height in inches.	Ther. Attd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A.M															
1			W	1		29.78	81	82	80		o	Cum Nimb	0	S	
2			"	1		29.77	81	82	80		"	"	0	"	
3			"	1		29.75	81	82	80		"	"	0	"	
4			"	1		29.75	81	82	80		"	"	0	"	
5			Calm	0		29.76	81	83	81		bc	Cir Cum Nimb	1	"	
6			"	0		29.78	81	83	82		"	"	2	"	
7			"	0		29.79	81	83	82		"	"	2	"	
8			"	0		29.81	81	83	82		"	"	3	"	
9			"	0		29.81	81	83	82		"	"	5	"	
10			"	0		29.80	82	84	82		"	"	6	"	
11			W	1		29.79	82	85	83		"	"	4	"	
Noon			"	1		29.78	83	86	83		"	"	3	"	

Distance run by Log since preceding Noon

knots fathoms.

Latitude by D. R. at Noon

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000 1001 1002 1003 1004 1005 1006 1007 1008 1009 1010 1011 1012 1013 1014 1015 1016 1017 1018 1019 1020 1021 1022 1023 1024 1025 1026 1027 1028 1029 1030 1031 1032 1033 1034 1035 1036 1037 1038 1039 1040

Longitude by D. R. at Noon

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000 1001 1002 1003 1004 1005 1006 1007 1008 1009 1010 1011 1012 1013 1014 1015 1016 1017 1018 1019 1020 1021 1022 1023 1024 1025 1026 1027 1028 1029 1030 1031 1032 1033 1034 1035 1036 1037 1038 1039 1040

Latitude by Observations at Noon ⊕

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Longitude by Chronometer from Forenoon Observations ⊕

0 1 22

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude \oplus observed at Sunrise

Variation of the Compass by Azimuth \oplus observed at 8 A.M. on Loanda Island

19 ° 25 " 00 " W.

Water expended during the preceding 24 hours

250 gallons.

Water Condensed during the preceding 24 hours

600 66

Water remaining on hand fit for me at Noon

1000 66

Coal consumed during the preceding 24 hours

1 tons 1150 lbs.

Coal remaining on hand at Noon

137 307

P.M.

1	West	3	29.76	83	86	83	bc	Cir Cum	3	S
2	"	3	29.75	83	85	82	o	"	0	"
3	"	2	29.73	83	85	82	"	"	0	"
4	"	2	29.71	82	84	82	or	"	0	"
5	"	2	29.73	82	84	82	Bc	"	1	"
6	"	2	29.73	82	84	82	"	"	1	"
7	"	2	29.75	82	83	82	"	"	1	"
8	"	1	29.75	82	83	81	"	"	1	"
9	"	1	29.76	82	83	81	"	"	1	"
10	"	1	29.78	81	83	81	o	Cir Cum Nimb	0	"
11	WSW	1	29.80	81	83	81	bc	"	1	"
Mid.	"	1	29.82	81	82	81	"	"	2	"

Longitude by Chronometer from Afternoon Observations ⊕

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Longitude by Chronometer Observations

[illegible]

Variation of the Compass by Amplitude observed at Sunset

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Variation of the Compass by _____ at _____

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000 1001 1002 1003 1004 1005 1006 1007 1008 1009 1010 1011 1012 1013 1014 1015 1016 1017 1018 1019 1020 1021 1022 1023 1024 1025 1026 1027 1028 1029 1030 1031 1032 1033 1034 1035 1036 1037 1038 1039 1040

under the command of Commander Winfield Scott Schley, U. S. Navy.
Thursday December 20th, 1877.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Overcast. Pleasant. Light airs from W. Fires banked in two boilers. Steam pressure 25 lbs. Distilling.

(Signed) Clinton K. Curtis
Lieut.

From 4 to 8 A.M. Partially clear. Warm. Calm. Received in Pay Dept. 190 lbs fresh beef and 149 lbs fresh bread. At [blank] crossed topgallant yards. Fires banked in two boilers. Steam pressure 25 lbs. Distilling.

(Signed) Samuel C. Lemly
Ensign.

From 8 to Merid. Cloudy. Warm. Calm first part, light breeze from W. latter part of watch. At 9.15 inspected at quarters. Exercised Marine Guard. Fires banked in two boilers. Steam pressure 25 lbs. Distilling.

(Signed) Charles B. T. Moore
Ensign.

From Merid. to 4 P.M. Overcast. Pleasant. Rainy latter part of watch. Light breeze from W. fires banked in two boilers. Steam pressure 25 lbs. Distilling.

(Signed) James K. Cogswell
Lieut.

From 4 to 8 P.M. Cloudy. Pleasant. Light W[ester]ly breeze. Fires banked in two boilers. Steam pressure 25 lbs. Distilling.

(Signed) Clinton K. Curtis
Lieut.

From 8 to Midnight. Cloudy. Pleasant. Light airs from N. Fires banked in two boilers. Steam pressure 25 lbs. Distilling.

(Signed) Charles B. T. Moore
Ensign.

(Signed) Asa Walker,
Lieut
Navigator.

Examined and found to be correct

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, St Paul de Loanda

Hour.	Knots Fathoms.	WINDS.		BAROMETER.		TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prog. Of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
		Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. Atm.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.			
A.M													
1			West	1		29.80	80	81	80	o	Cum Nimb	0	S
2			"	1		29.78	80	81	80	"	"	0	"
3			"	1		29.76	79	81	80	"	"	0	"
4			"	1		29.76	80	81	80	"	"	0	"
5			Calm	0		29.77	80	81	80	op	"	0	"
6			"	0		29.79	80	81	80	or	"	0	"
7			"	0		29.80	81	82	81	bc	"	2	"
8			"	0		29.80	81	83	81	"	"	3	"
9			SSE	1		29.79	81	84	81	"	Cir Cum Nimb	5	"
10			Calm	0		29.79	81	84	82	"	"	6	"
11			W	1		29.79	82	84	83	"	"	7	"
Noon			"	1		29.79	82	85	83	"	"	7	"

Distance run by Log since preceding Noon	knots	fathoms.
Latitude by D. R. at Noon	o	' "
Longitude by D. R. at Noon	o	' "
Latitude by Observations at Noon ⊕	o	' "
Longitude by Chronometer from Forenoon Observations ⊕	o	' "
Current during the time knots fms. per hour, setting to the	o	" "
Variation of the Compass by Amplitude ⊕ observed at Sunrise	o	" "
Variation of the Compass by Azimuth ⊕ observed at	o	" "
Water expended during the preceding 24 hours		250 gallons.
Water Condensed during the preceding 24 hours		1000 "
Water remaining on hand fit for me at Noon		1800 "
Coal consumed during the preceding 24 hours	1 tons	1970 lbs.
Coal remaining on hand at Noon	155 "	1477 "

P.M.													
1			West	1		29.77	83	86	83	bc	Cir Cum	4	S
2			"	2		29.74	83	86	83	"	"	6	"
3			"	2		29.71	83	86	83	"	"	7	"
4			"	2		29.69	83	85	83	"	"	8	"
5			"	2		29.78	82	84	81	"	"	6	"
6			"	1		29.73	82	83	80	"	"	2	"
7			"	1		29.75	82	81	79	"	"	2	"
8			"	1		29.77	80	80	78	"	"	4	"
9			"	1		29.79	80	82	80	"	"	5	"
10			"	1		29.80	80	82	80	"	"	5	"
11			"	1		29.79	80	82	80	"	"	5	"
Mid.			"	1		29.79	80	82	80	"	"	5	"

Longitude by Chronometer from Afternoon Observations ⊕	o	' "
Longitude by Chronometer Observations]	o	' "
Variation of the Compass by Amplitude observed at Sunset	o	' "
Variation of the Compass by at	o	' "

under the command of Commander Winfield Scott Schley, U. S. Navy.
Friday December 21st, 1877.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Overcast. Pleasant. Light airs from W. Fires banked in two boilers. Steam pressure 25 lbs. Distilling.

(Signed) James K. Cogswell
Lieut.

From 4 to 8 A.M. Cloudy. Passing showers first part, warm and pleasant latter part of watch. Calm and light airs from S. and E. Made preparations for coaling ship. Three coal lighters came alongside. Fires banked in two boilers. Steam pressure 25. Distilling.

(Signed) Clinton K. Curtis
Lieut.

From 8 to Merid. Clear. Warm. Calm and light W[ester]ly airs towards end of watch. Cir. Cum. Nimb. clouds. Fires banked in two boilers. Steam pressure 25 lbs. Distilling.

(Signed) Samuel C. Lemly
Ensign.

From Merid. to 4 P.M. Clear. Warm. Light breeze from W. Engaged in coaling ship. Fires banked in two boilers. Steam pressure 25 lbs. Distilling. Received on board, in all, 138 tons of coal.

(Signed) Charles B. T. Moore
Ensign.

From 4 to 8 P.M. Cloudy. Pleasant. Light airs from W. At sunset sent down topgallant yards. Bent light sails. Discharged all Kroomen [crewmen]. Received on board for transportation to St Helena, James Laryitas, one of Stanley's exploring expedition. Fires banked in two boilers. Steam pressure 25 lbs. Distilling.

(Signed) James K. Cogswell
Lieut.

From 8 to Midnight. Clear. Pleasant. Light W[ester]ly airs. Cir. Cum. clouds. At 10.45 a small side wheel steamer came in and anchored. Fires banked in two boilers. Steam pressure 25 lbs. Distilling. Received in Pay Dept. 4 [unreadable], 42 bags of bread and two 1/2 Bbls of Beef.

(Signed) Samuel C. Lemly
Ensign.

(Signed) Asa Walker,
Lieut
Navigator.

Examined and found to be correct

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, St Paul du Loanda and At Sea

Hour.	Knots Fathoms.	Courses steered.	WINDS.		Leeway.	BAROMETER.		TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. Of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
			Direction.	Force.		Height in inches.	Ther. Atf'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A.M															
1			W	1		29.81	79	81	80		o	Cum Nimb	0	S	
2			Calm	0		29.82	79	81	80		"	"	0	"	
3			SW	1		29.80	79	81	80		"	"	0	"	
4			"	1		29.79	79	81	80		"	"	0	"	
5			WSW	1		29.79	79	81	80		"	"	0	"	
6			W	1		29.79	78	8	79		"	"	0	"	
7			"	1		29.80	78	80	79		"	"	0	"	
8	Standing out of St. P. de L.		"	1		29.81	78	81	79	75	"	"	0	"	
9	6	0	WNW	"	1	29.82	79	82	80	77	bc	"	1	"	
10	4	0	W	"	1	29.82	80	82	80	78	"	"	1	"	
11	7	0	"	"	1	29.82	81	83	81	79	"	"	1	"	
Noon	7	0	"	WSW	1	29.80	81	83	81	80	"	"	1	"	

Distance run by Log since preceding Noon	24 knots	0 fathoms.
Latitude by D. R. at Noon	8 °	49 ' 48 " S.
Longitude by D. R. at Noon	12 °	52 ' 30 " E.
Latitude by Observations at Noon ⊕	8 °	48 ' 16 " S.
Longitude by Chronometer from Forenoon Observations ⊕	o	" "
Current during the time knots fms. per hour, setting to the	o	" "
Variation of the Compass by Amplitude ⊕ observed at Sunrise	o	" "
Variation of the Compass by Azimuth ⊕ observed at	o	" "
Water expended during the preceding 24 hours		300 gallons.
Water Condensed during the preceding 24 hours		700 "
Water remaining on hand fit for me at Noon		2200 "
Coal consumed during the preceding 24 hours	7 tons	1705 lbs.
Coal remaining on hand at Noon	147 "	2012 "

P.M.																
1	4 2	West	SW by S	2		29.78	81	83	81	80	bc		Cir Cum Nimb	2	L	All fore and
2	6 6	"	"	2		29.75	81	83	80	81	"		"	2	"	aft sail.
3	6 6	"	"	2		29.71	81	83	80	81	"		"	6	"	"
4	7 0	"	"	2		29.70	81	84	82	82	"		"	6	"	"
5	7 4	"	SW by W	2		29.71	82	84	80	84	"		"	5	"	Main try sail,
6	5 0	"	SW	2		29.72	82	84	81	84	"		Cir Cum	4	"	spanker and
7	5 2	"	"	2		29.76	82	84	80	84	"		"	7	"	gaff topsail.
8	7 4	"	"	2		29.78	82	84	80	84	"		"	7	"	"
9	7 0	"	"	2		29.82	82	84	80	84	"		"	1	"	"
10	7 0	"	"	2		29.83	82	84	80	84	"		Cum Nimb	0	"	"
11	7 0	"	"	2		29.82	82	84	82	84	"		"	1	"	"
Mid.	7 0	"	"	2		29.80	82	84	82	84	"		"	1	"	"

Longitude by Chronometer from Afternoon Observations ⊕	o	" "
Longitude by Chronometer Observations]	o	" "
Variation of the Compass by Amplitude observed at Sunset	o	" "
Variation of the Compass by at	o	" "

under the command of Commander Winfield Scott Schley, U. S. Navy.
Saturday December 22nd, 1877.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Overcast. Pleasant. Obscured moonlight. Light variable airs and calm. At 2.50 started fires in two boilers. Steam pressure 28 lbs. Distilling.

(Signed) Charles B. T. Moore
Ensign.

From 4 to 8 A.M. Overcast. Pleasant. Light airs from W. By order of Commander, Ellison Parker (Lds) was released from confinement. At 7, got underway, with four boilers, and stood out from St Paul de Loanda. The British and American Consul paid a parting visit to the ship. At 7.45 stopped and got soundings in 21 fathoms of water. At 8 started ahead. Draught forward 14 feet 6 in. Amidships 15 feet. Aft 15 feet 10 in. Steam pressure 60 lbs. Steaming with four boilers.

(Signed) James K. Cogswell
Lieut.

From 8 to Merid. Cloudy. Pleasant. Light breeze from S. and W. At 9, changed course to West. Steaming with four boilers. Steam pressure 60 lbs. Revolutions 40. At 11.45 set M. trysail.

(Signed) Clinton K. Curtis
Lieut.

From Merid. to 4 P.M. Partially clear. Warm. Light S. W. airs. Cir. Cum. Nimb. clouds. At 12.10 stopped and got soundings in 235 fathoms of water, bottom gray mud. At 12.30 started ahead. At 12.35 set all fore and aft sail. Steaming with four boilers. Steam pressure 60 lbs. Revolutions 42.

(Signed) Samuel C. Lemly
Ensign

From 4 to 6 P.M. Cloudy. Pleasant. Light breeze from S. and W. Steaming with four boilers. At 5.42 stopped to get sounding. Hauled down head sails. Steam pressure 60 lbs. Revolutions 42.

(Signed) Charles B. T. Moore
Ensign.

From 6 to 8 P.M. Clear. Pleasant. Light breeze from S. W. Steaming with four boilers. At 6, got soundings in 901 fathoms of water, bottom green mud. Steam pressure 65 lbs. Revolutions 42. Long swell from S. W.

(Signed) James K. Cogswell
Lieut.

From 8 to Midnight. Cloudy. Pleasant. Light S. W. breeze. Steaming with four boilers. Steam pressure 60 lbs. Revolutions 42.

(Signed) Clinton K. Curtis
Lieut.

(Signed) Asa Walker,
Lieut
Navigator.

Examined and found to be correct

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, At Sea

Hour.	Knots Fathoms.		WINDS.			BAROMETER.			TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prog. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
			Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A.M																
1	6	6	West	SW	3		29.80	81	82	78	84	bc	Cir Cum	3	L	
2	6	6	"	"	3		29.78	81	82	78	84	"	"	3	"	
3	6	4	"	"	3		29.78	81	82	78	84	"	"	1	"	
4	7	0	"	"	3		29.78	80	81	79	84	"	"	0	"	
5	6	6	"	"	3		29.78	80	81	79	84	o	Cir Cum Nimb	0	"	main try sail
6	6	4	"	"	3		29.81	80	82	79	83	bc	"	1	"	"
7	6	2	"	"	3		29.82	80	82	79	83	"	"	3	"	"
8	6	4	"	"	3		29.83	80	82	79	83	"	Cir Cum	4	"	"
9	7	2	"	"	3		29.84	80	82	80	84	"	"	3	"	"
10			"	"	2		29.86	81	84	80	84	"	"	2	"	"
11			Sounding	"	2		29.85	81	84	80	84	"	"	1	"	"
Noon	7	6	West	"	2		29.83	81	84	80	84	"	"	1	"	"

Distance run by Log since preceding Noon

149 knots

0 fathoms.

Latitude by D. R. at Noon

9 ° 39 ' 00 " S.

Longitude by D. R. at Noon

10 ° 33 ' 30 " E.

Latitude by Observations at Noon ⊕

9 ° 41 ' 20 " S.

Longitude by Chronometer from Forenoon Observations ⊕

10 ° 29 ' 00 " E.

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊕ observed at Sunrise

° " "

Variation of the Compass by Azimuth ⊕ observed at 7.45 A.M.

20 ° 40 " 00 " W.

Water expended during the preceding 24 hours

400 gallons.

Water

during the preceding 24 hours

"

Water remaining on hand fit for me at Noon

1800 "

Coal consumed during the preceding 24 hours

9 tons 790 lbs.

Coal remaining on hand at Noon

138 " 1222 "

P.M.

1	7	4	West	SW	2		29.83	81	84	80	84	bc	Cir Cum	2	L	All fore and aft sail
2	7	4	"	"	2		29.81	82	83	80	84	"	"	2	"	"
3	7	0	"	"	2		29.77	80	83	81	83	"	"	3	"	"
4	7	0	"	"	2		29.77	80	82	79	83	"	"	4	"	"
5	6	6	"	"	3		29.76	79	81	77	83	"	"	7	"	"
6	7	0	"	"	3		29.77	78	80	76	83	"	"	4	"	"
7	7	0	"	"	3		29.79	78	80	76	83	"	"	4	"	"
8	7	4	"	"	3		29.80	79	80	76	83	"	"	7	"	"
9	8	2	"	SW by S	3		29.82	78	79	76	83	"	Cum Nimb	2	"	"
10	8	0	"	"	3		29.83	77	79	76	83	"	"	6	"	"
11	8	2	"	"	4		29.84	77	79	76	83	"	"	0	"	"
Mid.	8	0	"	"	3		29.83	77	79	76	83	"	"	0	"	"

Longitude by Chronometer from Afternoon Observations ⊕

° ' "

Longitude by Chronometer Observations

° ' "

Variation of the Compass by Amplitude

observed at Sunset

° ' "

Variation of the Compass by

at

° ' "

under the command of Commander Winfield Scott Schley, U. S. Navy.
Sunday December 23rd, 1877.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Cloudy. Pleasant. Moderate S. W. breeze. Cir. Cum. clouds. Obscured moonlight. At 12.15 took in all fore and aft sail, except main try sail. Steaming with four boilers. Steam pressure 60 lbs. Revolutions 43.

(Signed) Samuel C. Lemly
Ensign.

From 4 to 8 A.M. Cloudy. Pleasant. Moderate breeze from S. W. Streaming with four boilers. At 7.30 set head sails, spanker and gaff topsail. Steam pressure 60 lbs. Revolutions 42.

(Signed) Charles B. T. Moore
Ensign.

From 8 to Merid. Cloudy. Warm. Light breeze from S. W. Steaming with four boilers. At 9, stopped and got soundings in 2200 fathoms of water, bottom soft blue mud. Owing to the extreme softness of the bottom, the shot was not detached and was hauled up. At 9.30 inspected at quarters. Steam pressure 60 lbs. Revolutions 42. At 11, started ahead. Long swell from S. W. Rolling moderately.

(Signed) James K. Cogswell
Lieut.

From Merid. to 4 P.M. Partially cloudy. Pleasant. Light S. W. breeze. Steaming with four boilers. Steam pressure 65 lbs. Revolutions 41.

(Signed) Clinton K. Curtis
Lieut.

From 4 to 6 P.M. Clear. Pleasant. Moderate S. W. breeze. Cir. Cum. Nimb. clouds. At 5.45 crossed topgallant yards. Steaming with four boilers. Steam pressure 60 lbs. Revolutions 41.

(Signed) Samuel C. Lemly
Ensign.

From 6 to 8 P.M. Clear. Pleasant. Moderate breeze from S. W. Steaming with four boilers. At sunset mustered at quarters. Steam pressure 60 lbs. Rev. 42.

(Signed) Charles B. T. Moore
Ensign.

From 8 to Midnight. Overcast. Pleasant. Moderate breeze from S. W. Long swell from S. W. Steaming with four boilers. Steam pressure 60 lbs. Revolutions 44.

(Signed) James K. Cogswell
Lieut.

(Signed) Asa Walker,
Lieut
Navigator.

Examined and found to be correct

under the command of Commander Winfield Scott Schley, U. S. Navy.
Monday December 24th, 1877.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Cloudy. Cool. Light breeze from S. and W. At 12.15 stopped and got soundings in 2581 fathoms of water, bottom mud. At 1.50 started ahead. Steaming with four boilers. Steam pressure 60 lbs. Revolutions 45.

(Signed) Clinton K. Curtis
Lieut.

From 4 to 8 A.M. Overcast. Cool. Pleasant. Moderate breeze from S. W. by S. Cum. Nimb. clouds. At 4.10 set foresail. Steaming with four boilers. Steam pressure 60 lbs. Revolutions 43.

(Signed) Samuel C. Lemly
Ensign.

From 8 to Merid. Overcast. Pleasant. Moderate breeze from S. W. by S. At 9, hauled down flying jib. At 9.15 inspected at quarters. At 11.10 hauled down jib. At 11.25 set jib. By order of Commander, confined John L. King (B.M.) without irons, to await action of Commander, for intoxication while on duty. The following punishments were ordered by Commander. W. J. Lindon (O.S.2.C.) 12 hours extra duty. J. W. Green (Lds) 6 hours extra duty. W. H. Banforth (O.S.2.C.) 6 hours extra duty. and Herman Meyer (O.S.2.C.) 12 hours extra duty. Steaming with four boilers. Steam pressure 60 lbs. Revolutions 40.

(Signed) Charles B. T. Moore
Ensign.

From Merid. to 4 P.M. Overcast. Pleasant. Moderate breeze from S. and W. Steaming with four boilers. At 3, took in head sails and foresail. Stopped and got soundings in 2765 fathoms of water bottom brown and white mud. Long swell from S. W. Crossed royal yards. Steam pressure 60 lbs. Revolutions 46.

(Signed) James K. Cogswell
Lieut.

From 4 to 6 P.M. Cloudy. Cool. Light breeze from S. and W. At 4.36 started ahead. At 5, made all plain sail. Stopped engines at 5.15 and banked fires in four boilers. Distilling.

(Signed) Clinton K. Curtis
Lieut.

From 6 to 8 P.M. Partially clear. Cool. Pleasant. Moderate S. S. W. breeze. At 6.10 took in royals and flying jib. Clewed down main topgallant sail and set up back stays. At 6.15 mustered at quarters. Fires banked in four boilers. Steam pressure 30 lbs. Distilling. By order of Commander, John L. King (B.M.) was released from confinement and restored to duty.

(Signed) Samuel C. Lemly
Ensign.

From 8 to Midnight. Cloudy. Cool. Pleasant. Moderate breeze from S. S. W. Moon rose at 10.15. Fires banked in four boilers. Steam pressure 25 lbs. Distilling.

(Signed) Charles B. T. Moore
Ensign.

(Signed) Asa Walker,
Lieut
Navigator.

Examined and found to be correct

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, At Sea

Hour.	Knots Fathoms.			WINDS.			BAROMETER.			TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
				Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A.M																	
1	7	0	West	SSW	4	1/4	29.85	74	75	73	77	bc	Cum Nimb	1	L	All plain sail,	
2	6	4	"	"	3	1/4	29.85	74	75	72	77	"	"	2	"	except royals M.	
3	5	6	W 1/2 S	"	3	1/4	29.84	74	75	72	77	"	"	2	"	sail and flying jib.	
4	5	0	"	S by W	2	1/4	29.84	74	75	72	77	"	"	0	"	"	
5	6	0	"	"	2	1/4	29.85	74	75	72	77	"	"	0	"	"	
6	5	4	"	"	2	1/4	29.87	74	74	71	77	"	"	1	"	"	
7	4	4	"	"	2	1/4	29.90	74	74	71	77	"	"	1	"	"	
8	4	6	"	"	2	1/4	29.90	74	74	71	77	"	"	1	"	"	
9	4	2	"	"	3-4		29.94	74	74	71	77	"	"	1	"	"	
10	4	2	W 1/4 S	"	3		29.95	74	74	71	77	"	"	4	"	"	
11	4	2	"	"	3		29.95	74	75	72	77	"	"	4	"	Steam	
Noon	Sounding			"	3		29.95	74	77	74	77	"	"	4	"		

Distance run by Log since preceding Noon

124 knots

4 fathoms.

Latitude by D. R. at Noon

11 ° 22 ' 00 " S.

Longitude by D. R. at Noon

5 ° 40 ' 30 " E.

Latitude by Observations at Noon ⊕

11 ° 19 ' 30 " S.

Longitude by Chronometer from Forenoon Observations ⊕

5 ° 34 ' 15 " E.

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊕ observed at Sunrise

° " "

Variation of the Compass by Azimuth ⊕ observed at 7.30 A.M.

20 ° 50 " 00 " W.

Water expended during the preceding 24 hours

300 gallons.

Water Condensed during the preceding 24 hours

300 "

Water remaining on hand fit for me at Noon

1500 "

Coal consumed during the preceding 24 hours

2 tons 880 lbs.

Coal remaining on hand at Noon

128 " 2002 "

P.M.

1		Sounding	SSW	3		29.92	75	75	73	77	bc	Cur Cum	3	L		All plain sail,
2	4 4	W 1/4 N	"	3		29.89	75	75	72	77	"	"	3	"		except M. sail and
3	5 2	W 3/4 N	"	3		29.88	75	75	72	77	"	"	4	"		royals.
4	5 0	W 1/2 N	"	3		29.86	75	75	72	77	"	"	3	"		"
5	4 6	W	"	3	1/2	29.85	75	74	72	77	"	"	1	"		Same, except F. jib.
6	5 0	W 1/4 N	S by W	3	1/4	29.85	74	74	71	77	o	"	0	"		"
7	5 4	W	SSW	3		29.88	74	74	71	77	bc	"	2	"		"
8	5 0	W 1/4 S	"	3		29.90	74	74	71	77	"	"	2	"		"
9	5 0	W 1/2 S	S by W	3		29.92	73	74	71	77	"	"	5	"		"
10	5 6	"	"	3		29.91	73	74	71	77	"	Cum Nimb	5	"		"
11	5 6	"	"	3		29.90	73	74	71	77	"	"	5	"		"
Mid.	6 0	"	"	3-4		29.90	73	74	71	77	"	"	2	"		"

Longitude by Chronometer from Afternoon Observations ⊕

° ' "

Longitude by Chronometer Observations

]

° ' "

Variation of the Compass by Amplitude observed at Sunset

° ' "

Variation of the Compass by at

° ' "

under the command of Commander Winfield Scott Schley, U. S. Navy.
Tuesday December 25th, 1877.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Cloudy and cool. Moderate breeze from S. and W. Long swell from S. S. W. Bright moonlight. Fires banked in four boilers. Distilling.

(Signed) James K. Cogswell
Lieut.

From 4 to 8 A.M. Cloudy. Cool. Light breeze from S. and W. Ship under all plain sail to royal, except mainsail. Fires banked in four boilers. Distilling.

(Signed) Clinton K. Curtis
Lieut.

From 8 to Merid. Partially clear. Cool. Pleasant. Moderate S. by W. breeze. Cir. Cum. Cum. clouds. At 8.10 set royals. At 10, spread fires. At 11, shortened and furled sail and commenced using engines for sounding. At 12, got bottom at 3045 fathoms, bottom soft mud. Steam in four boilers. Steam pressure 55 lbs.

(Signed) Samuel C. Lemly
Ensign.

From Merid. to 4 P.M. Cloudy. Pleasant. Moderate breeze from S. S. W. Stopped first hour sounding. At 1.02 started ahead. At 1.05 called all hands and made all plain sail. At 1.20 banked fires and uncoupled screw. At 3.30 took in main royal. At 3.40 took in M.T.G. sail and sent down yard. Fires banked in four boilers. Steam pressure 25 lbs. Distilling.

(Signed) Charles B. T. Moore
Ensign.

From 4 to 6 P.M. Cloudy and pleasant. Moderate breeze from S. and W. Long swell from S. S. W. At 4.30 crossed M.T.G. yard and set the sail, set main royal. Fires banked in four boilers. Steam pressure 25 lbs. Distilling.

(Signed) James K. Cogswell
Lieut.

From 6 to 8 P.M. Cloudy. Pleasant. Moderate breeze from S. and W. Barometer rising. At 7, hauled down flying jib. Fires banked in four boilers. Steam pressure 25 lbs. Distilling.

(Signed) Clinton K. Curtis
Lieut.

From 8 to Midnight. Partially clear. Cool. Moderate S. by W. breeze. Cum. Nimb. clouds. Moon rose at 10.50. Fires banked in four boilers. Steam pressure 25 lbs. Distilling.

(Signed) Samuel C. Lemly
Ensign.

(Signed) Asa Walker,
Lieut
Navigator.

Examined and found to be correct

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, At Sea

Hour.	Knots Fathoms.		WINDS.			BAROMETER.			TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
			Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. at't'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A.M																
1	6	4	W 1/2 S	S by W	4		29.90	73	74	71	77	o	Cum Nimb	0	L	All plain sail
2	6	0	"	"	3		29.89	73	74	71	77	bc	"	1	"	except flying jib.
3	4	6	"	"	2		29.88	73	74	71	77	o	"	0	"	"
4	5	2	"	"	3		29.87	73	74	71	77	bc	"	1	"	"
5	5	0	"	"	2		29.87	73	73	71	77	o	"	0	"	"
6	4	0	W	"	2	1/2	29.91	72	73	70	77	"	"	0	"	"
7	3	0	W 1/2 S	"	2	1/2	29.91	72	73	71	77	"	"	0	"	"
8	3	2	"	S	2	1/2	29.93	72	74	71	76	"	"	0	"	"
9	2	0	"	"	1-2		29.93	72	74	71	76	"	"	0	"	"
10			Sounding	"	1		29.93	73	74	71	76	"	"	0	"	"
11	1	4	W 1/2 S	"	1		29.93	74	75	71	76	"	"	0	"	"
Noon	2	0	"	"	1		29.91	74	76	72	75	"	"	0	"	Same, with flying jib.

Distance run by Log since preceding Noon	101 knots	2 fathoms.
Latitude by D. R. at Noon	11 °	58 ' 16 " S.
Longitude by D. R. at Noon	3 °	59 ' 15 " E.
Latitude by Observations at Noon ⊕	11 °	49 ' 50 " S.
Longitude by Chronometer from Forenoon Observations ⊕	3 °	53 ' 30 " E.
Current during the time	knots 3	fms. per hour, setting to the N. W. 3/4 N.
Variation of the Compass by Amplitude ⊕ observed at Sunrise	°	" "
Variation of the Compass by Azimuth ⊕ observed at 7.30 A.M.	22 °	40 " 00 " W.
Water expended during the preceding 24 hours		300 gallons.
Water Condensed during the preceding 24 hours		1200 "
Water remaining on hand fit for me at Noon		2400 "
Coal consumed during the preceding 24 hours	2 tons	1160 lbs.
Coal remaining on hand at Noon	126 "	842 "

P.M.																
1	2	6	w 1/2 s w by s	S by W	2		29.90	74	75	72	76	bc	Cum Nimb	2	L	All plain sail
2	4	2	"	"	2		29.87	74	75	72	76	"	"	3	"	except M. sail and
3	3	4	"	"	1-2		29.85	74	75	72	76	"	"	2	"	M. try sail.
4	3	6	"	"	1-2	1/4	29.85	74	75	72	76	"	"	1	"	"
5	4	0	N 1/2 S	"	2		29.87	74	74	71	76	o	"	0	"	"
6	3	6	W 3/4 S	"	2		29.87	74	74	71	76	"	"	0	"	"
7	4	0	W 1/4 S	"	2	1/4	29.90	73	74	71	75	"	"	0	"	"
8	4	4	W by S	"	3	1/4	29.90	73	74	71	74	"	"	0	"	"
9	3	4	"	"	2		29.94	73	74	71	74	"	"	0	"	"
10	3	4	"	"	2		29.96	73	74	71	74	"	"	0	"	"
11	3	6	"	"	2		29.94	73	74	71	74	"	"	0	"	"
Mid.	4	0	"	"	2		29.92	73	74	71	74	"	"	0	"	"

Longitude by Chronometer from Afternoon Observations ⊕	°	'	"
Longitude by Chronometer Observations]	°	'	"
Variation of the Compass by Amplitude observed at Sunset	°	'	"
Variation of the Compass by at	°	'	"

under the command of Commander Winfield Scott Schley, U. S. Navy.
Wednesday December 26th, 1877.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Overcast. Cool. Moderate breeze from S. by W. Obscured moonlight. Fires banked in four boilers. Distilling.

(Signed) Charles B. T. Moore
Ensign.

From 4 to 8 A.M. Overcast. Pleasant. Light breeze from S. and W. Long swell from S. by W. Fires banked in four boilers. Steam pressure 25 lbs.

(Signed) James K. Cogswell
Lieut.

From 8 to Merid. Cloudy. Pleasant. Light breeze from S. At 8.25 started ahead one bell. At 8.50 shortened and furled sail. Stopped and got soundings in 3033 fathoms water, bottom reddish brown mud. At 10.16 started ahead. Made all plain sail to royals, except flying jib. Banked fires. At 11.30 set flying jib. Fires banked in four boilers. Steam pressure 25 lbs. Distilling.

(Signed) Clinton K. Curtis
Lieut.

From Merid. to 4 P.M. Cloudy. Pleasant. Light S[outher]ly breeze. Cum. Nimb. clouds. Fires banked in four boilers. Steam pressure 30 lbs. Distilling. At 12.15 changed course to W. by S. Strapped and filled 12 IX in and 3 XI in and 3, 60 Pdr Rifle shells.

(Signed) Samuel C. Lemly
Ensign.

From 4 to 6 P.M. Overcast. Pleasant. Light breeze from S. by W. Fires banked in four boilers. Steam pressure 30 lbs. Distilling.

(Signed) Charles B. T. Moore
Ensign.

From 6 to 8 P.M. Overcast and pleasant. Light breeze from S. and W. Fires banked in four boilers. Steam pressure 30 lbs. Distilling.

(Signed) James K. Cogswell
Lieut.

From 8 to Midnight. Cloudy. Cool. Light breeze from S. and W. Ship under all plain sail. At 9.33 sounded call to general quarters. Secured at 9.49. At 10, stopped distilling. Fires banked in four boilers. Steam pressure 30 lbs.

(Signed) Clinton K. Curtis
Lieut.

(Signed) Asa Walker,
Lieut
Navigator.

Examined and found to be correct

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, At Sea

Hour.	Knots Fathoms.		WINDS.			BAROMETER.			TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Rings of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
			Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. at'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A.M.																
1	4	4	W 1/2 S	S by W	3		29.90	72	73	70	75	o	Cum Nimb	0	L	All plain sail
2	4	4	W 3/4 S	"	3		29.90	72	73	70	75	"	"	0	"	and M. try sail. M.sl.
3	4	2	W by S	"	2		29.90	72	73	70	75	"	"	0	"	not bent.
4	4	2	"	S	2		29.90	72	73	70	75	"	"	0	"	"
5	4	4	"	"	2		29.92	72	73	70	75	"	"	0	"	"
6	3	6	"	"	2		29.	72	73	70	75	"	"	0	"	"
7	3	2	"	S by W	2	1/4	29.	72	73	70	75	"	"	0	"	"
8	3	2	W 3/4 S	"	2		29.	72	73	70	75	"	"	0	"	"
9	2	0	W by S	"	1		29.	72	73	71	75	"	"	0	"	"
10	1	4	W	"	1		29.	72	73	72	75	"	"	0	"	"
11	3	0	W 3/4 N	SSW	2		29.	72	73	71	75	"	"	0	"	"
Noon	3	6	W	"	2		29.	72	73	71	75	"	"	0	"	"

Distance run by Log since preceding Noon

88 knots

4 fathoms.

Latitude by D. R. at Noon

12 ° 34 ' 30 " S.

Longitude by D. R. at Noon

2 ° 35 ' 30 " E.

Latitude by Observations at Noon ⊕

12 ° 25 ' 30 " S.

Longitude by Chronometer from Forenoon Observations ⊕

2 ° 34 ' 00 " E.

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊕ observed at Sunrise 8 A.M.

23 ° 40 " 00 " W.

Variation of the Compass by Azimuth ⊕ observed at

° " "

Water expended during the preceding 24 hours

300 gallons.

Water Condensed during the preceding 24 hours

300 "

Water remaining on hand fit for me at Noon

2400 "

Coal consumed during the preceding 24 hours

2 tons 540 lbs.

Coal remaining on hand at Noon

124 " 342 "

P.M.

1	2	0	West	SSW	2	29.91	72	74	71	75	bc	Cum Nimb	1	L	
2				S by W	2	29.92	73	74	71	75	"	"	1	"	
3			Sounding	"	2	29.92	73	75	71	75	"	"	2	"	
4	1	4	W 1/2 S	"	2	29.90	73	75	71	75	"	"	2	"	
5	5	6	"	"	3	29.90	73	73	70	75	"	Cir Cum	7	"	All plain sail
6	6	2	"	"	3	29.91	73	73	70	74	"	"	6	"	and M. try sail.
7	6	0	"	"	3	29.90	73	73	70	74	"	"	8	"	"
8	6	0	"	S	3	29.92	73	73	70	74	"	Cum	9	"	Same, except F. jib.
9	6	0	"	"	3	29.94	72	73	70	74	"	"	9	"	"
10	6	0	"	"	3	29.92	72	73	70	74	"	"	9	"	"
11	6	0	"	"	3	29.92	72	73	70	74	"	"	9	"	"
Mid.	5	4	"	"	3	29.92	72	73	70	74	"	"	9	"	"

Longitude by Chronometer from Afternoon Observations ⊕

° ' "

Longitude by Chronometer Observations

° ' "

Variation of the Compass by Amplitude

observed at Sunset

° ' "

Variation of the Compass by

at

° ' "

under the command of Commander Winfield Scott Schley, U. S. Navy.
Thursday December 27th, 1877.

[Editor's note: The following note was attached to the log entry for December 27, 1877.]

Expended at Target Practice.

3 XI in Shells loaded and fuzed.

3 60 Pdr. " " " "

6 IX in " " " "

45 lbs Powder cannon in 15 lb bags

18 " " " " 6 " "

50 " " " " 10 " "

[illegible] Cartridge bags 15 lbs

" " 6 "

" " 10 "

IX in Shot Solid

Primer Quill

(Signed) Asa Walker
Lieut.

under the command of Commander Winfield Scott Schley, U. S. Navy.
Thursday December 27th, 1877.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Cloudy. Cool. Pleasant. Light S[outher]ly breeze. Cum. Nimb. clouds. Obscured moonlight. Fires banked in four boilers. Steam pressure 30 lbs.

(Signed) Samuel C. Lemly
Ensign.

From 4 to 8 A.M. Overcast. Cool. Pleasant. Light breeze from S. Fires in four boilers. Steam pressure 25 lbs.

(Signed) Charles B. T. Moore
Ensign.

From 8 to Merid. Overcast. Pleasant. Light breeze from S. and W. At 9.15 inspected at quarters. At 11.35 spread fires in four boilers. Steam pressure 20 lbs.

(Signed) James K. Cogswell
Lieut.

From Merid. to 4 P.M. Cloudy. Pleasant. Light breeze from S. and W. At 12.20 took in and furled light sails and foresail. At 12.45 started engines and took in topsails and fore and aft sail. Got soundings in 3063 fathoms of water, bottom reddish brown mud. At 2.40 sounded call to General Quarters, cast loose port battery and got target overboard. Exercised at target practice. At 3.40 called all hands made sail. Made sail and set course W. 1/2 S. At 3.45 banked fires.

(Signed) Clinton K. Curtis
Lieut.

From 4 to 6 P.M. Clear. Cool. Moderate S. by W. breeze. Long swell. Fires banked in four boilers. Steam pressure 30 lbs.

(Signed) Samuel C. Lemly
Ensign.

From 6 to 8 P.M. Clear and pleasant. Moderate breeze from S. At 6.30 hauled down flying jib. Fires banked in four boilers. Steam pressure 20 lbs.

(Signed) Charles B. T. Moore
Ensign.

From 8 to Midnight. Clear and pleasant. Moderate breeze from S. Bright starlight. Fires banked in four boilers. Steam pressure 20 lbs.

(Signed) James K. Cogswell
Lieut.

(Signed) Asa Walker,
Lieut
Navigator.

Examined and found to be correct

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, At Sea

Hour.	Knots	Fathoms.	Courses steered.	WINDS.		Force.	Leeway.	BAROMETER.		TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prog. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
				Direction.				Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A.M																	
1	5	0	W 1/2 S	S by E	2			29.91	71	72	69	74	bc	Cum Nimb	1	L	All plain sail,
2	4	0	"	"	1-2			29.90	71	72	69	74	"	"	1	"	except M. sail.
3	3	4	"	"	1-2			29.90	71	72	69	74	"	"	1	"	"
4	4	0	"	SSE	1-2			29.90	71	72	69	74	"	"	1	"	"
5	4	2	"	"	2			29.94	71	72	69	74	"	Cir Cum Nimb	1	"	All plain sail,
6	3	2	"	"	1			29.97	71	72	71	74	"	"	1	"	with M. try sail,
7	1	6	"	"	0-1			29.99	71	72	71	74	"	"	1	"	except M. sail,
8	1	0	"	"	0-1			29.99	71	73	71	74	"	"	1	"	Spanker and gaff topsail.
9	0	4	"	"	0-1			29.99	72	73	71	74	"	"	1	"	"
10	1	0	"	"	0-1			29.99	73	74	72	74	"	"	1	"	All plain sail,
11	1	0	"	SE by E	0-1			29.97	74	75	73	74	o	"	0	"	except M. sail.
Noon	1	0	"	S by E	0-1			29.97	74	76	74	74	bc	Cir Cum	3	"	"

Distance run by Log since preceding Noon 79 knots 2 fathoms.

Latitude by D. R. at Noon 13 ° 05 ' 20 " S.

Longitude by D. R. at Noon 1 ° 24 ' 00 " E.

Latitude by Observations at Noon ⊕ 12 ° 53 ' 30 " S.

Longitude by Chronometer from Forenoon Observations ⊕ 1 ° 16 ' 30 " E.

Current during the time knots 4 fms. per hour, setting to the N. N. W. 3/4 W.

Variation of the Compass by Amplitude ⊕ observed at Sunrise ° " "

Variation of the Compass by Azimuth ⊕ observed at 7.30 A.M. 23 ° 40 " 00 " W.

Water expended during the preceding 24 hours 400 gallons.

Water during the preceding 24 hours "

Water remaining on hand fit for me at Noon 2000 "

Coal consumed during the preceding 24 hours 2 tons 1160 lbs.

Coal remaining on hand at Noon 121 " 1422 "

P.M.

1	4	W 1/2 S	S by E	0-1	29.95	74	77	74	75	bc	Cir Cum	2	L	All plain sail
2	1 0	"	"	1	29.93	74	76	73	76	"	"	4	"	except M. sail.
3	2 0	"	SSE	2	29.90	74	75	71	76	"	"	7	"	"
4	2 6	"	S by E	2	29.90	74	74	71	76	"	"	8	"	"
5	3 4	"	S 1/2 E	1-2	29.91	74	75	72	76	"	"	7	"	"
6	Sounding		S	1-2	29.93	74	74	72	76	"	"	5	"	"
7	1 0	W 1/2 S	S by W	1-2	29.94	74	74	72	75	"	Cum Nimb	7	"	"
8	3 0	"	"	1-2	29.94	74	74	72	75	"	"	7	"	"
9	3 2	"	S by E	2	29.96	73	73	70	75	"	"	6	"	"
10	3 4	"	S	2	29.96	73	73	70	75	"	"	0	"	"
11	3 6	"	"	2	29.96	73	73	70	75	"	"	0	"	"
Mid.	4 0	"	"	2	29.95	73	73	70	75	"	"	0	"	"

Longitude by Chronometer from Afternoon Observations ⊕ ° ' "

Longitude by Chronometer Observations] ° ' "

Variation of the Compass by Amplitude observed at Sunset ° ' "

Variation of the Compass by at ° ' "

under the command of Commander Winfield Scott Schley, U. S. Navy.
Friday December 28th, 1877.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Cloudy. Pleasant. Light breeze from S. and E. Ship under all plain sail except mainsail. Fires banked under four boilers. Steam pressure 25 lbs.

(Signed) Clinton K. Curtis
Lieut.

From 4 to 8 A.M. Cloudy. Pleasant. Light S. S. E. breeze. Cir. Cum. Nimb. clouds. At 7.45 took in spanker and gaff topsail. Fires banked in four boilers. Steam pressure 25 lbs.

(Signed) Samuel C. Lemly
Ensign.

From 8 to Merid. Cloudy. Pleasant. Light airs from S. and E. At 9.45 Commander inspected ship. Called all hands clear ship for action. Afterwards exercised at general quarters and fire quarters. Called away all boats, armed and equipped. At 11.15 set royals and flying jib. At 12 set spanker. Fires banked in four boilers. Steam pressure 25 lbs.

(Signed) Charles B. T. Moore
Ensign.

From Merid. to 4 P.M. Clear and pleasant. Light airs from S. and E. Fires banked in four boilers. Steam pressure 20 lbs.

(Signed) James K. Cogswell
Lieut.

From 4 to 6 P.M. Clear and pleasant. Light breeze from S. At 4 spread fires and got up steam. At 4.55 coupled engine. At 5 called "shorten sail", took in and furled all sail, except spanker and gaff topsail. Commenced sounding at 5.08. Bottom at 3043 fathoms, reddish brown mud.

(Signed) Clinton K. Curtis
Lieut.

From 6 to 8 P.M. Clear. Pleasant. Gentle S[outher]ly breeze. Cum. Nimb. clouds. At 6.45 made all plain sail and off on our course. At 7 banked fires and uncoupled engine. Fires banked in four boilers. Steam pressure 25 lbs.

(Signed) Samuel C. Lemly
Ensign.

From 8 to Midnight. Clear first hour. Overcast and pleasant remainder of watch. Light breeze from S. Fires banked in four boilers. Steam pressure 25 lbs.

(Signed) Charles B. T. Moore
Ensign.

(Signed) Asa Walker,
Lieut
Navigator.

Examined and found to be correct

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, At Sea

Hour.	Knots Fathoms.		WINDS.			BAROMETER.		TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.	
			Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. attd.	Air Dry Bulb.	Air Wet Bulb.						Water at surface.
A.M																
1	3	2	W 1/2 S	S by E	1-2		29.95	73	73	72	75	o	Cum Nimb	0	S	All plain sail,
2	3	0	"	"	2		29.93	73	72	72	75	"	"	0	"	except M. sail.
3	2	4	"	"	2		29.93	73	72	72	75	"	"	0	"	"
4	3	0	"	"	2		29.93	73	73	70	75	"	"	0	"	"
5	3	4	"	"	1-2		29.95	73	73	70	75	"	"	0	"	"
6	4	2	"	"	2		29.97	73	73	70	75	bc	"	1	"	"
7	4	0	"	"	2		29.99	73	73	70	75	"	"	1	"	"
8	4	0	"	"	1-2		30.00	73	73	70	75	"	"	1	"	Same, with M. try sail
9	4	6	"	"	2		30.00	73	74	71	75	"	Cir Cum Nimb	2	"	and M. T. M. S. S.
10	4	4	"	"	2		30.01	73	74	71	75	"	"	4	"	"
11	2	6	"	"	1		30.00	74	75	72	75	"	"	3	"	"
Noon	3	4	"	"	1-2		29.99	74	76	72	75	"	"	3	"	"

Distance run by Log since preceding Noon

71 knots

2 fathoms.

Latitude by D. R. at Noon

13 °

30

00

" S.

Longitude by D. R. at Noon

0 °

14

00

" E.

Latitude by Observations at Noon ⊕

13 °

25

00

" S.

Longitude by Chronometer from Forenoon Observations ⊕

0 °

09

30

" E.

Current during the time

knots 3

fms. per hour, setting to the

N. W. 1/4 N.

Variation of the Compass by Amplitude ⊕ observed at Sunrise

°

"

"

Variation of the Compass by Azimuth ⊕ observed at 7.30 A.M.

25 °

00

"

00

" W.

Water expended during the preceding 24 hours

300 gallons.

Water

during the preceding 24 hours

"

Water remaining on hand fit for me at Noon

1800

"

Coal consumed during the preceding 24 hours

2

tons

580

lbs.

Coal remaining on hand at Noon

119

"

842

"

P.M.

1	1	0	w 1/2 s	S by E	2		29.96	74	75	73	75	bc	Cum Nimb	3	S	All plain sail, except
	3	0	w 3/4 s	"												
2	3	6	"	"	2		29.95	74	75	73	85	"	Cir Cum	4	"	M. sail, with M. try
3	4	0	"	"	2		29.95	74	75	73	75	"	"	5	"	sail and M. T. M. S. S.
4	3	6	"	S	2		29.93	74	75	73	75	"	"	6	"	"
5	4	2	"	"	3		29.93	73	73	70	75	"	Cum	2	"	"
6	5	4	"	"	3		29.91	73	73	70	75	"	"	1	"	"
7	6	0	"	S by W	2-3		29.92	73	74	70	75	"	"	1	"	"
8	2	0	"	S x W to SSE	2-4		29.94	73	74	71	75	"	Cum Str	2	"	Spanker and gaff Topsail
9			Sounding	S by E	3		29.94	73	74	71	74	"	Cir Cum Nimb	3	"	all plain sail except
10	2	0	W 3/4 S	SSE	3		29.96	73	73	70	74	"	"	3	"	M. sail, with M. T.
11	5	0	"	"	3		29.98	72	73	70	74	o	Cum Nimb	0	"	and M. T. M. S. S.
Mid.	5	6	"	"	3		29.96	72	73	70	74	bc	"	2	"	"

Longitude by Chronometer from Afternoon Observations ⊕

°

1

"

Longitude by Chronometer Observations

]

°

1

"

Variation of the Compass by Amplitude

observed at Sunset

°

1

"

Variation of the Compass by

at

°

1

"

under the command of Commander Winfield Scott Schley, U. S. Navy.
Saturday December 29th, 1877.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Overcast. Pleasant. Light breeze from S. and E. Fires banked in four boilers. Steam pressure 15 lbs.

(Signed) James K. Cogswell
Lieut.

From 4 to 8 A.M. Cloudy. Pleasant. Light breeze from S. and E. Fires banked in four boilers. Steam pressure 15 lbs.

(Signed) Clinton K. Curtis
Lieut.

From 8 to Merid. Cloudy. Warm. Gentle S. by E. breeze. Cir. Cum. Nimb clouds. Got up main topmast stay sail, bent, and at 10.25 set it. The following punishment was assigned by Commander, Edward Moran (O.S.2.C.) for refusing to obey the orders of Petty Officer, 12 hours extra duty. Fires banked in four boilers. Steam pressure 25 lbs.

(Signed) Samuel C. Lemly
Ensign.

From Merid. to 4 P.M. Cloudy. Pleasant. Light breeze from S. by E. At 12.15 changed course to W 3/4 S. Quarterly Board of Survey condemned 25 gals. Of vinegar, lost by breakage. Fires banked in four boilers. Steam pressure 25 lbs.

(Signed) Charles B. T. Moore
Ensign.

From 4 to 6 P.M. Cloudy. Pleasant. Moderate breeze from S. Fires banked in four boilers. Steam pressure 25 lbs.

(Signed) James K. Cogswell
Lieut.

From 6 to 8 P.M. Cloudy and pleasant. Light breeze from S. by W. to S. S. E. Spread fires and got up steam at 6.30. Coupled engines at 7.25. At 7.20 called "shorten sail", took in and furled all sail, except spanker and gaff topsail. Commenced sounding at 7.45.

(Signed) Clinton K. Curtis
Lieut.

From 8 to Midnight. Cloudy. Cool. Pleasant. Light breeze fro S. S. E. At 8.15 cast in 2927 fathoms water, bottom, mud. At 9.25 stopped steaming uncoupled, made sail, and banked fires. At 9.50 started distiller. Fires banked in four boilers. Steam pressure 30 lbs. Distilling.

(Signed) Samuel C. Lemly
Ensign.

(Signed) Asa Walker,
Lieut
Navigator.

Examined and found to be correct

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, At Sea

Hour.	Knots Fathoms.		WINDS.				BAROMETER.		TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
			Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. air'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A.M																
1	5	4	W 3/4 S	South	3		29.94	73	72	69	74	bc	Cum Nimb	1	S	All plain sail,
2	5	4	"	"	3		29.94	73	72	69	74	o	"	0	"	Except M. sail, with
3	6	0	"	"	3		29.93	73	72	69	74	"	"	0	"	M. try sail and
4	6	6	"	"	3-4		29.93	72	72	69	74	"	"	0	"	M.T.M.S.S.
5	5	4	"	"	3		29.92	72	71	69	74	"	"	0	"	"
6	3	4	"	"	2		29.91	71	71	69	74	"	"	0	"	"
7	4	0	"	"	2		29.95	71	71	69	74	"	"	0	"	"
8	3	4	"	"	2		29.98	71	71	69	74	"	"	0	"	"
9	3	4	"	"	1-2		29.99	73	72	69	74	"	"	0	"	"
10	4	4	"	"	2		29.99	73	73	69	74	"	"	0	"	"
11			"	"			29.99	73	73	71	74	"	"	0	"	"
Noon			"	"			29.98	73	74	71	74	"	"	0	"	"

Distance run by Log since preceding Noon 105 knots 0 fathoms.

Latitude by D. R. at Noon 14 ° 23 ' 20 " S.

Longitude by D. R. at Noon 1 ° 20 ' 30 " W.

Latitude by Observations at Noon ⊕ 14 ° 15 ' 10 " S.

Longitude by Chronometer from Forenoon Observations ⊕ 1 ° 30 ' 20 " W.

Current during the time knots 4 fms. per hour, setting to the N. W. 1/2 W.

Variation of the Compass by Amplitude ⊕ observed at Sunrise ° " "

Variation of the Compass by Azimuth ⊕ observed at ° " "

Water expended during the preceding 24 hours 250 gallons.

Water Condensed during the preceding 24 hours 550 "

Water remaining on hand fit for me at Noon 2100 "

Coal consumed during the preceding 24 hours 2 tons 1150 lbs.

Coal remaining on hand at Noon 116 " 1932 "

P.M.

1	5	0	W 3/4 S	S by E	2		29.97	71	71	69	74	op	Cum Nimb	0	S	All plain sail,
2	5	0	"	"	3		29.95	71	72	70	74	bc	"	2	"	"
3	5	2	"	SSE	2-4		29.93	70	70	70	74	bcp	"	3	"	"
4	5	6	"	"	3		29.91	70	71	70	74	bc	"	6	"	"
5	4	0	"	"	2		29.92	72	72	70	74	"	"	4	"	"
6			Sounding	"	2		29.94	72	73	70	74	"	"	7	"	"
7	1	4	W 3/4 S	S by E	2		29.95	72	72	70	74	"	"	8	"	"
8	3	4	"	"	1-2		29.97	72	72	71	73	"	"	8	"	"
9	3	0	"	"	1-2		29.97	72	72	71	73	"	"	2	"	"
10	2	0	"	"	1-2		29.97	72	72	71	73	"	"	2	"	"
11	2	0	"	"	1-2		29.97	72	72	71	73	"	"	2	"	"
Mid.	2	4	"	"	1-2		29.97	72	72	71	73	"	"	2	"	"

Longitude by Chronometer from Afternoon Observations ⊕ ° ' "

Longitude by Chronometer Observations] ° ' "

Variation of the Compass by Amplitude observed at Sunset ° ' "

Variation of the Compass by at ° ' "

under the command of Commander Winfield Scott Schley, U. S. Navy.
Sunday December 30th, 1877.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Overcast. Cool. Moderate breeze from S. Moon rose at 3. Fires banked in four boilers. Distilling.

(Signed) Charles B. T. Moore
Ensign.

From 4 to 8 A.M. Overcast. Pleasant. Light breeze from S. Fires banked in four boilers.

(Signed) James K. Cogswell
Lieut.

From 8 to Merid. Cloudy. Pleasant. Light breeze fro S. At 9.30 the Commander inspected ship and crew at quarters. Immediately after, called all hands to muster and read prayers on quarter deck. Fires banked in four boilers. Distilling.

(Signed) Clinton K. Curtis
Lieut.

From Merid. to 4 P.M. Partially clear. Light passing showers. Moderate S. S. E. breeze. Cir. Cum. Nimb. clouds. Fires banked in four boilers. Steam pressure 30 lbs. Distilling.

(Signed) Samuel C. Lemly
Ensign.

From 4 to 6 P.M. Cloudy. Pleasant. Light breeze from S. S. E. At 5 called all hands, shortened and furled sail. At 5.15 commenced sounding. Bottom at 2789 fathoms, light brown sandy mud. Fires in four boilers.

(Signed) Charles B. T. Moore
Ensign.

From 6 to 8 P.M. Clear and pleasant. Light breeze from S. and E. At 6.40 started ahead. At 6.50 made all plain sail. At 7 banked fires in four boilers.

(Signed) James K. Cogswell
Lieut.

From 8 to Midnight. Cloudy. Pleasant. Light breeze fro S. and E. Fires banked in four boilers. Distiller in operation.

(Signed) Clinton K. Curtis
Lieut.

(Signed) Asa Walker,
Lieut
Navigator.

Examined and found to be correct

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, At Sea

Hour.	Knots Fathoms.		WINDS.			BAROMETER.		TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prog. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
			Direction.	Force.	Leeway.	Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A.M															
1	3	0	W 3/4 S	S by W	1	29.93	72	73	70	74	bc	Cir Cum Nimb	3	S	M. T. M. S. S. M.
2	1	0	"	Calm	0	29.94	73	73	70	74	"	"	3	"	try sail and all plain
3	2	0	"	SSE	1	29.94	72	72	70	74	"	"	4	"	sail, except M. sail.
4	2	0	"	"	1	29.96	72	72	70	74	"	"	4	"	"
5	1	4	"	"	1	29.95	72	72	69	74	"	Cum Nimb	1	"	"
6	1	6	"	"	1	29.97	72	72	69	74	"	"	2	"	"
7	2	2	"	"	1	29.98	72	72	69	74	o	"	0	"	"
8	2	4	"	"	1-2	29.99	72	72	70	74	bc	"	1	"	"
9	1	4	"	"	1	30.01	73	72	71	74	o	"	0	"	"
10	0	6	"	"	1	30.00	74	72	72	74	"	"	0	"	"
11	0	4	"	"	1	30.00	74	74	73	74	"	"	0	"	"
Noon	1	0	"	"	1	30.00	77	77	74	74	bc	Cir Cum	7	"	"

Distance run by Log since preceding Noon	59 knots	2 fathoms.
Latitude by D. R. at Noon	14 °	48 ' 00 " S.
Longitude by D. R. at Noon	2 °	21 ' 20 " W.
Latitude by Observations at Noon ⊕	14 °	42 ' 00 " S.
Longitude by Chronometer from Forenoon Observations ⊕	2 °	29 ' 30 " W.
Current during the time knots 3 fms. per hour, setting to the N. W. 3/4 W.	°	" "
Variation of the Compass by Amplitude ⊕ observed at Sunrise	°	" "
Variation of the Compass by Azimuth ⊕ observed at 7.30 A.M.	25 °	21 " 00 " W.
Water expended during the preceding 24 hours		400 gallons.
Water Condensed during the preceding 24 hours		1000 "
Water remaining on hand fit for me at Noon		2700 "
Coal consumed during the preceding 24 hours	1 tons	2220 lbs.
Coal remaining on hand at Noon	114 "	1952 "

P.M.																
1	1	0	W 1/2 S	SSE	1	29.99	74	77	73	74	bc	Cir Cum	7	S	M. T. M. S. S.	
2	1	0	"	"	1	29.98	75	76	72	74	"	"	4	"	M. try sail, and all	
3	2	0	"	"	1	29.95	75	75	71	74	"	"	4	"	plain sail except M. sail.	
4	2	0	"	"	1	29.95	75	74	71	74	"	"	3	"	"	
5	2	2	"	"	1	29.93	73	74	72	74	"	"	3	"	"	
6	2	4	"	"	1	29.94	73	74	72	74	"	"	4	"	"	
7	3	0	"	"	1	29.96	73	73	71	74	"	"	1	"	"	
8	3	4	"	"	1	29.97	73	73	70	74	"	"	6	"	"	
9	2	6	"	"	2	29.98	73	73	71	73	"	"	1	"	"	
10	4	0	"	"	2	29.99	73	73	71	73	"	"	8	"	"	
11	5	2	"	"	3	29.98	73	73	71	73	"	"	8	"	"	
Mid.	2	0	"	"	3	29.97	72	72	70	73	"	"	6	"	"	

Longitude by Chronometer from Afternoon Observations ⊕	°	'	"
Longitude by Chronometer Observations]	°	'	"
Variation of the Compass by Amplitude observed at Sunset	°	'	"
Variation of the Compass by at	°	'	"

under the command of Commander Winfield Scott Schley, U. S. Navy.
Monday December 31st, 1877.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Cloudy. Cool. Pleasant. Light S. S. E. airs. Cir. Cum. Nimb. clouds. At 2.35 Moon rose. Fires banked in four boilers. Steam pressure 25 lbs. Distilling.

(Signed) Samuel C. Lemly
Ensign.

From 4 to 8 A.M. Cloudy. Cool. Pleasant. Light airs from S. S. E. Fires banked in four boilers. Steam pressure 25 lbs. Distilling.

(Signed) Charles B. T. Moore
Ensign.

From 8 to Merid. Cloudy. Warm. Light airs from S. S. E. At 9.15 exercised at general quarters. Time casting loose. Marine Guard 30 s. Nav. Div. 1 m 45 s. 1st Div. 3 m 15 s. 2nd Div. 2 m 45 s. Powder Div. 2 m 10 s. Surgeon's Div. 2 m. Engineers Div. 2 m 20 s. Secured in 6 m 45 s. By order of Commander, Michael Cleary (2r Gr) is to have his money and liberty stopped, next liberty for being insubordinate and profane. Fires banked in four boilers. Steam pressure 25 lbs. Stopped distilling at 11.

(Signed) James K. Cogswell
Lieut.

From Merid. to 4 P.M. Partially cloudy. Pleasant. Light breeze from S. and E. At 12.10 changed course to W. 1/2 S. Condemned by Survey, one Bbl of Beef (St Paul de Loanda) ordered it to be thrown overboard. Fires banked in four boilers. Steam pressure 25 lbs.

(Signed) Clinton K. Curtis
Lieut.

From 4 to 6 P.M. Partially clear. Pleasant. Gentle breeze from S. S. E. Cir. Cum. clouds. Fires banked in four boilers. Steam pressure 25 lbs.

(Signed) Samuel C. Lemly
Ensign.

From 6 to 8 P.M. Cloudy. Pleasant. Light breeze from S. S. E. At sunset mustered at quarters. Fires banked in four boilers. Steam pressure 25 lbs.

(Signed) Charles B. T. Moore
Ensign.

From 8 to Midnight. Clear. Pleasant. Moderate from S. and E. Fires banked in four boilers. Steam pressure 25 lbs.

(Signed) Clinton K. Curtis
Lieut.

(Signed) Asa Walker,
Lieut
Navigator.

Examined and found to be correct

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, At Sea

Hour.	Knots	Fathoms.	WINDS.				BAROMETER.		TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
			Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. at'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A.M																
1	5	0	W 1/2 S	S	2		29.96	72	72	70	73	bc	Cum Nimb	6	S	All plain sail
2	4	4	"	"	2		29.94	72	72	70	73	"	"	6	"	Except M. sail
3	6	0	"	"	2-3		29.94	72	71	69	73	"	"	5	"	"
4	5	4	"	"	2		29.94	72	72	69	73	"	"	4	"	"
5	3	6	"	S by E	1-2		29.96	71	71	70	73	"	"	4	"	"
6	3	2	"	S	2		29.98	72	73	70	73	"	"	4	"	"
7	4	2	"	S by E	3		30.01	71	73	70	73	"	"	3	"	Spanker and G. topsail
8	2	2	"	"	3		30.01	72	73	71	73	"	"	3	"	"
9	Sounding		"	"	3		30.02	73	73	71	73	"	"	5	"	All plain sail except
10	5	0	W 1/2 S	"	4		30.02	73	73	71	73	"	"	3	"	M. sail, with M.T.M.
11	5	4	"	"	3		30.02	73	74	72	73	"	"	5	"	S. S. and Main try sail.
Noon	6	0	"	"	3		30.01	73	74	72	73	"	"	2	"	"

Distance run by Log since preceding Noon

83 knots

0 fathoms.

Latitude by D. R. at Noon

15 ° 24 ' 36 " S.

Longitude by D. R. at Noon

3 ° 45 ' 00 " W.

Latitude by Observations at Noon ⊕

15 ° 17 ' 28 " S.

Longitude by Chronometer from Forenoon Observations ⊕

3 ° 49 ' 00 " W.

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊕ observed at Sunrise

° " "

Variation of the Compass by Azimuth ⊕ observed at

° " "

Water expended during the preceding 24 hours

300 gallons.

Water during the preceding 24 hours

"

Water remaining on hand fit for me at Noon

2400 "

Coal consumed during the preceding 24 hours

2 tons 1600 lbs.

Coal remaining on hand at Noon

112 " 352 "

P.M.

1	1	4	W 1/2 S	S by E	3		29.97	73	74	72	73	bc	Cum Nimb	4	S	All plain sail
2	4	4	W	"	3		29.94	73	74	72	73	"	"	4	"	Except M. sail, with
3	4	6	"	"	3		29.92	72	74	71	73	"	"	5	"	M. T. M. S. S. and M. T.
4	4	0	"	"	2		29.91	72	73	71	73	"	"	6	"	sail
5	3	6	"	"	2		29.91	72	73	71	73	"	"	4	"	"
6	3	4	"	"	2		29.91	72	73	71	73	"	"	4	"	"
7	3	2	"	"	2		29.96	72	73	70	73	"	"	3	"	"
8	4	0	"	"	1-2		29.96	72	73	70	73	"	"	4	"	"
9	4	4	"	"	2		29.98	72	72	70	73	"	"	5	"	"
10	4	4	"	"	3		29.98	72	72	70	73	"	"	7	"	"
11	3	6	"	"	3		29.98	72	72	70	73	"	"	8	"	"
Mid.	4	2	"	"	3		29.97	72	72	70	73	"	"	4	"	"

Longitude by Chronometer from Afternoon Observations ⊕

° ' "

Longitude by Chronometer Observations

° ' "

Variation of the Compass by Amplitude

observed at Sunset

° ' "

Variation of the Compass by

at

° ' "

under the command of Commander Winfield Scott Schley, U. S. Navy.
Tuesday January 1st, 1878.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Partially cloudy. Pleasant. Light breeze from S. Moon rose at 3.25. Fires banked in four boilers. Steam pressure 25 lbs.

(Signed) Clinton K. Curtis
Lieut.

From 4 to 8 A.M. Partially cloudy. Pleasant. Light to moderate breeze fro S. by E. At 6.50 spread fires. At 7.20 coupled propeller. At 7.25 took in and furled. All sail, except spanker and gaff topsail, and at 7.50 commenced sounding. Average steam pressure 40 lbs, fires in four boilers.

(Signed) Samuel C. Lemly
Ensign.

From 8 to Merid. Cloudy. Pleasant. Moderate breeze from S. by E. Sounding first hour. At 8.17 got cast in 2568 fathoms, bottom light brown mud and sand. At 9.05 started ahead. Called all hands and made all plain sail. Banked fires. At 9.25 inspected at quarters. Exercised at company drill. Fires banked in four boilers. Steam pressure 25 lbs.

(Signed) Charles B. T. Moore
Ensign.

From Merid. to 4 P.M. Cloudy. Pleasant. Light breeze from S. and E. At 12.15 changed course to West. Fires banked in four boilers. Steam pressure 25 lbs.

(Signed) James K. Cogswell
Lieut.

From 4 to 6 P.M. Partially cloudy. Pleasant. Light breeze from S. and E. Fires banked in four boilers. Steam pressure 25 lbs.

(Signed) Clinton K. Curtis
Lieut.

From 6 to 8 P.M. Partially clear. Pleasant. Light S. by E. breeze. At 6.30 mustered at quarters. Fires banked in four boilers. Steam pressure 25 lbs.

(Signed) Samuel C. Lemly
Ensign.

From 8 to Midnight. Pleasant. Partially cloudy. Light breeze from S. by E. Fires banked in four boilers. Steam pressure 25 lbs.

(Signed) Charles B. T. Moore
Ensign.

(Signed) Asa Walker,
Lieut
Navigator.

Examined and found to be correct

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, At Sea and At St Helena

Hour.	Knots		Courses steered.	WINDS.		Leeway.	BAROMETER.		TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
				Direction.	Force.		Height in inches.	Ther. at'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A.M																
1	3	4	West	S by E	2		29.95	75	72	71	73	o	Cum Nimb	0	S	All plain sail
2	3	0	"	"	2		29.93	72	72	71	73	o	"	0	"	except M. sail,
3	4	2	"	S	3		29.93	72	72	71	73	o	"	0	"	with M. try sail and
4	5	2	"	"	3		29.95	72	72	71	73	o	"	0	"	M. T. M. S. S.
5	5	0	"	"	2		29.93	72	72	71	73	o	"	0	"	"
6			Sounding	"	2		29.93	73	73	71	73	bc	"	1	"	"
7	3		W by N	"	2		29.95	73	73	71	73	"	"	2	"	Plain sail
8	5		"	"	2		29.99	73	73	71	73	"	"	3	"	"
9	4		WNW 3/4 W	S by E	2		29.99	73	74	71	73	"	Cir Cum	8	"	"
10	2		"	"	2		29.99	74	76	73	74	"	"	8	"	"
11	1		WNW 1/2 W	"	2		29.99	74	77	74	74	"	"	8	"	Steaming
Noon			Standing in for St Helena	"	2		29.98	74	76	74	74	"	"	9	"	"

Distance run by Log since preceding Noon	knots	fathoms.
Latitude by D. R. at Noon	o	' "
Longitude by D. R. at Noon	o	' "
Latitude by Observations at Noon ⊕	o	' "
Longitude by Chronometer from Forenoon Observations ⊕	o	' "
Current during the time	knots	fms. per hour, setting to the
Variation of the Compass by Amplitude ⊕ observed at Sunrise	o	" "
Variation of the Compass by Azimuth ⊕ observed at	o	" "
Water expended during the preceding 24 hours		350 gallons.
Water		during the preceding 24 hours
Water remaining on hand fit for me at Noon		2000 "
Coal consumed during the preceding 24 hours	2 tons	1160 lbs.
Coal remaining on hand at Noon	109 "	1432 "

P.M.

1	At Anchor	W by S	2	29.97	74	77	75	bc	Cir Cum	8	S
2		"	2	29.96	76	79	77	"	"	9	"
3		"	1	29.94	76	79	77	"	"	7	"
4		W	1	29.92	76	79	77	"	"	6	"
5		"	1	29.92	76	78	75	"	"	6	"
6		SW	1	29.94	75	77	74	"	"	7	"
7		"	1	29.96	74	76	73	"	"	6	"
8		"	1	29.97	74	75	73	"	"	6	"
9		"	2	29.97	74	75	73	"	"	9	"
10		ESE	2	29.98	74	75	73	"	Cum	5	"
11		"	3	29.98	74	75	73	"	Cum Nimb	3	"
Mid.		"	2	29.98	74	75	73	"	"	6	"

Longitude by Chronometer from Afternoon Observations ⊕	o	' "
Longitude by Chronometer Observations]	o	' "
Variation of the Compass by Amplitude	o	' "
Variation of the Compass by	o	' "

under the command of Commander Winfield Scott Schley, U. S. Navy.
Wednesday January 2nd, 1878.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Overcast. Cool. Moderate breeze from S. and E. Fires banked in four boilers. Steam pressure 25 lbs.

(Signed) James K. Cogswell
Lieut.

From 4 to 8 A.M. Cloudy. Pleasant. Light breeze from S. At 4.10 spread fires. At 4.55 took in and furled all sail, got soundings in 2306 fathoms of water, bottom very light sand. At 5.03 made land bearing West. At 6.18 started ahead under steam and changed course to W. by N. At 6.30 made all plain sail. Stopped engines and banked fires. Bent both bower chains and got anchors ready for letting go. Fires banked in four boilers.

(Signed) Clinton K. Curtis
Lieut.

From 8 to Merid. Clear. Warm. Light S. by E. breeze. At 8.17 changed course to W.N.W. 3/4 W. At 9.30 shortened and furled sail and got soundings in 2091 fathoms of water, bottom shells and sand. At 10.45 made sail, except fore sail and stood on course under steam and sail. At 11.15 shortened and furled sail. Engaged in getting ship ready for port. Steaming with four boilers. Steam pressure 55 lbs. Revolutions 41.

(Signed) Samuel C. Lemly
Ensign.

From Merid. to 4 P.M. Clear and warm. Light breeze from W. Steaming in for Jamestown. At 12.40 called "bring ship to anchor". At 1, came to in 21 fathoms of water with starboard anchor, veering to 45 fathoms of chain. Bearings. Yout Pond Point W. by S. 1/4 S. Jamestown S. by W. At 1.40 hauled fires. Making preparations for setting up rigging. Draught forward 13 feet 10 in. Amidships 14 feet 10 in. Amidships 14 feet 10 in. Aft 15 feet 10 in. An officer from H.M.S. "Avon" called on Commander. American Vice Consul visited Commander.

(Signed) Charles B. T. Moore
Ensign.

From 4 to 8 P.M. Clear. Warm. Light variable breeze. Lowered smoke pipe. Unbent main topmast staysail. At sunset sent down light yards and unbent light sails.

(Signed) Samuel C. Lemly
Ensign.

From 8 to Midnight. Partially cloudy. Cool. Light breeze from S. and E.

(Signed) Charles B. T. Moore
Ensign.

(Signed) Asa Walker,
Lieut
Navigator.

Examined and found to be correct

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, St Helena

Hour.	Knots Fathoms.	WINDS.		BAROMETER.		TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
		Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.			
A.M													
1			ESE	1		29.91	73	74	71	bc	Cir Cum	8	S
2			S	2		29.92	73	74	71	"	"	8	"
3			"	1-3		29.93	73	74	71	"	"	7	"
4			SE	1		29.94	73	74	71	"	"	8	"
5			SSE	3		29.96	72	74	71	"	"	5	"
6			"	3		29.97	72	73	72	"	"	2	"
7			"	2		29.98	72	73	72	"	"	3	"
8			"	1		29.99	72	73	73	"	"	4	"
9			S	2		30.00	74	74	74	"	"	5	"
10			"	3		29.99	74	76	74	"	"	4	"
11			SE	1-3		29.98	74	77	76	"	"	4	"
Noon			"	1-3		29.99	74	78	76	"	"	4	"

Distance run by Log since preceding Noon

knots

fathoms.

Latitude by D. R. at Noon

o

'

"

Longitude by D. R. at Noon

o

'

"

Latitude by Observations at Noon ⊕

o

'

"

Longitude by Chronometer from Forenoon Observations ⊕

o

'

"

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊕ observed at Sunrise

o

"

"

Variation of the Compass by Azimuth ⊕ observed at

o

"

"

Water expended during the preceding 24 hours

300 gallons.

Water during the preceding 24 hours

"

Water remaining on hand fit for me at Noon

1700

"

Coal consumed during the preceding 24 hours

tons

250

lbs.

Coal remaining on hand at Noon

109

"

1182

"

P.M.

1			SE	2		29.96	75	78	76	bc	Cir Cum	4	S
2			"	3-4		29.95	76	78	76	"	"	3	"
3			"	2-4		29.94	76	79	76	"	"	2	"
4			"	2-4		29.92	76	79	76	"	"	2	"
5			"	2-4		29.93	76	78	76	"	"	5	"
6			"	2-5		29.95	76	77	75	"	"	3	"
7			"	2-4		29.96	76	76	74	"	"	2	"
8			"	2-4		29.97	75	75	74	"	"	2	"
9			"	2-4		29.99	74	75	74	"	"	3	"
10			"	2-5		29.99	74	75	74	"	"	5	"
11			"	2-5		29.99	74	75	74	"	"	4	"
Mid.			"	2-5		29.99	74	75	73	"	"	2	"

Longitude by Chronometer from Afternoon Observations ⊕

o

'

"

Longitude by Chronometer Observations

o

'

"

Variation of the Compass by Amplitude observed at Sunset

o

'

"

Variation of the Compass by at

o

'

"

under the command of Commander Winfield Scott Schley, U. S. Navy.
Thursday January 3rd, 1878.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear. Cool. Pleasant. Light variable breeze several heavy gusts off the island.

(Signed) Samuel C. Lemly
Ensign.

From 4 to 8 A.M. Cloudy. Pleasant. Light breeze from S. and E. Engaged in setting up standing rigging.

(Signed) James K. Cogswell
Lieut.

From 8 to Merid. Clear and pleasant, with wind blowing in puffs, moderate, from S. E. Engaged in setting up rigging, and staying masts. By order of Commanding Officer, the following named O.S.2.C. have been advanced to O.S. from the 2nd inst. inclusive, Viz, Henry H. Hill, J.R. Duncan, Robert Landon, W.M.M. Camm, John Delmore, John Kenyon, William Hardie, Charles Beardsley, Anthony McFadden, W.H. Danforth, W.D. Jenkins, John Harhagan, F.H. DeForrest, John Millmore, E.F. Ferry, F.G. Jones, C.J. Owen, Lewis Potts, and John Bullens.

(Signed) Charles B. T. Moore
Ensign.

From Merid. to 4 P.M. Cloudy. Pleasant. Moderate breezes from S. and E, blowing fresh in puffs. Engaged in setting up rigging and rattling down. Veered chain to 60 fathoms. The Commanding Officer, with several officers, paid an official visit to the Governor of the Island.

(Signed) James K. Cogswell
Lieut.

From 4 to 8 P.M. Cloudy. Cool. Moderate breeze from S. and E. with frequent gusts. Engaged in rattling and tarring down rigging.

(Signed) Charles B. T. Moore
Ensign.

From 8 to Midnight. Cloudy. Pleasant. Moderate breeze from S. and E, with frequent strong puffs.

(Signed) James K. Cogswell
Lieut.

(Signed) Asa Walker,
Lieut
Navigator.

Examined and found to be correct

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, St Helena

Hour.	Knots Fathoms.	WINDS.		BAROMETER.		TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
		Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.			
A.M													
1			SE	2-4		29.95	73	74	72	od	Cum Nimb	0	
2			ESE	3-5		29.96	73	74	72	bc	"	2	
3			"	3-5		29.98	73	74	72	o	"	0	
4			SE	2		29.99	73	74	73	od	"	0	
5			"	1-3		30.00	73	73	73	"	"	0	
6			"	1-3		30.00	73	72	73	"	"	0	
7			"	1-3		30.00	73	72	73	"	"	0	
8			"	1-3		30.01	73	73	74	"	"	0	
9			"	1-3		30.01	73	77	74	"	"	0	
10			ESE	1-4		30.00	73	76	74	"	"	0	
11			E	2-5		30.00	73	77	75	bc	"	2	
Noon			SSE	2-5		29.99	73	77	75	"	"	3	

Distance run by Log since preceding Noon

knots

fathoms.

Latitude by D. R. at Noon

o

'

"

Longitude by D. R. at Noon

o

'

"

Latitude by Observations at Noon ⊕

o

'

"

Longitude by Chronometer from Forenoon Observations ⊕

o

'

"

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊕ observed at Sunrise

o

"

"

Variation of the Compass by Azimuth ⊕ observed at

o

"

"

Water expended during the preceding 24 hours

300 gallons.

Water during the preceding 24 hours

"

Water remaining on hand fit for me at Noon

1400 "

Coal consumed during the preceding 24 hours

tons 250 lbs.

Coal remaining on hand at Noon

109 " 932 "

P.M.

1		South	2-4	29.98	75	77	75	bc	Cum Nimb	3
2		"	1-3	29.96	76	78	75	"	"	3
3		"	1-3	29.96	76	77	74	"	"	5
4		"	1-3	29.96	76	76	74	"	"	5
5		"	1-3	29.96	76	76	74	"	"	5
6		"	2-3	29.96	75	75	74	"	"	5
7		"	2	29.95	75	75	74	"	"	6
8		"	2	30.00	75	75	73	"	"	7
9		"	2	30.01	75	75	72	"	"	7
10		"	2	30.02	74	75	72	"	"	5
11		"	1-3	30.02	74	75	72	"	"	4
Mid.		"	1-3	30.02	74	74	72	"	"	4

Longitude by Chronometer from Afternoon Observations ⊕

o

'

"

Longitude by Chronometer Observations]

o

'

"

Variation of the Compass by Amplitude observed at Sunset

o

'

"

Variation of the Compass by at

o

'

"

under the command of Commander Winfield Scott Schley, U. S. Navy.
Friday January 4th, 1878.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Overcast. Drizzling rain first and last hour. Moderate breeze from S. and E, with frequent heavy gusts.

(Signed) Charles B. T. Moore
Ensign.

From 4 to 8 A.M. Weather damp and unpleasant. Drizzling rain at intervals during entire watch. Moderate breeze fro S. E. with heavy gusts. Barometer steady. Received fresh provisions for crew, 155 lbs of beef and 130 lbs of vegetables. Cleaned bilge.

(Signed) Clinton K. Curtis
Lieut.

From 8 to Merid. Cloudy and pleasant. Drizzling rain first part of watch. Variable wind, strong in puffs from S. and E. Rattling and tarring down. The Secretary and Aid to the Governor, called on Commander.

(Signed) James K. Cogswell
Lieut.

From Merid. to 4 P.M. Partially cloudy. Pleasant. Moderate breeze, with heavy gusts from S. At 1.30 half masted colors in company with H.B.M.S. "Avon", she sending a funeral party ashore. At 3, an English full rigged ship came in and anchored. Finished tarring down. Sent liberty party ashore.

(Signed) Clinton K. Curtis
Lieut.

From 4 to 8 P.M. Cloudy. Pleasant. Light breeze from S. and E, strong in puffs.

(Signed) James K. Cogswell
Lieut.

From 8 to Midnight. Partially cloudy. Pleasant. Light breeze from S, shifting to E, with strong puffs.

(Signed) Clinton K. Curtis
Lieut.

(Signed) Asa Walker,
Lieut
Navigator.

Examined and found to be correct

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, St Helena

Hour.	Knots Fathoms.	WINDS.		BAROMETER.		TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
		Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.			
A.M													
1			SE	2-3		29.99	74	74	73	bc	Cum Nimb	5	S
2			"	"		29.98	73	73	72	"	"	4	"
3			"	2-4		29.98	73	73	72	"	"	6	"
4			"	2-4		29.97	73	73	72	"	"	8	"
5			ESE	1		30.00	73	73	72	"	"	2	"
6			"	1		30.00	73	73	72	"	"	3	"
7			E	1		30.01	73	73	72	"	"	1	"
8			"	1		30.03	73	73	72	o	"	0	"
9			ESE	1-3		30.03	74	74	72	"	"	0	"
10			"	1-3		30.03	74	75	72	bc	"	1	"
11			"	1-3		30.03	74	76	72	"	"	1	"
Noon			"	1-3		30.03	74	76	72	"	"	1	"

Distance run by Log since preceding Noon

knots

fathoms.

Latitude by D. R. at Noon

o

'

"

Longitude by D. R. at Noon

o

'

"

Latitude by Observations at Noon ⊕

o

'

"

Longitude by Chronometer from Forenoon Observations ⊕

o

'

"

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊕ observed at Sunrise

o

"

"

Variation of the Compass by Azimuth ⊕ observed at

o

"

"

Water expended during the preceding 24 hours

250 gallons.

Water during the preceding 24 hours

"

Water remaining on hand fit for me at Noon

1100

"

Coal consumed during the preceding 24 hours

tons

250

lbs.

Coal remaining on hand at Noon

109

"

682

"

P.M.

1			SE	2-4		30.01	74	76	73	bc	Cum Nimb	3	S
2			"	2-4		30.00	74	76	73	"	"	4	"
3			"	2-4		29.99	74	76	73	"	"	2	"
4			"	2-4		29.97	74	76	73	"	"	5	"
5			"	1-3		29.97	74	76	73	"	"	5	"
6			"	1-3		29.97	74	74	72	"	"	5	"
7			"	1-3		29.97	74	73	70	"	"	3	"
8			"	1-3		29.98	74	73	70	"	"	2	"
9			"	2-4		29.99	73	74	70	"	"	6	"
10			"	2-4		29.99	73	74	70	"	"	6	"
11			"	1-3		30.00	72	74	70	"	"	7	"
Mid.			"	1-3		30.00	72	74	70	"	"	5	"

Longitude by Chronometer from Afternoon Observations ⊕

o

'

"

Longitude by Chronometer Observations

o

'

"

Variation of the Compass by Amplitude observed at Sunset

o

'

"

Variation of the Compass by at

o

'

"

under the command of Commander Winfield Scott Schley, U. S. Navy.
Saturday January 5th, 1878.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Cloudy. Pleasant. Moderate breeze from S. and E, with frequent strong puffs.

(Signed) James K. Cogswell
Lieut.

From 4 to 8 A.M. Cloudy. Cool. Pleasant. Light airs varying from E. to S. E. Received in Pay Dept. 158 lbs of fresh beef and same quantity of vegetables.

(Signed) Samuel C. Lemly
Ensign.

From 8 to Merid. Cloudy. Cool. Wind light from E.S.E, with strong gusts. Barometer steady.

(Signed) Clinton K. Curtis
Lieut.

From Merid. to 4 P.M. Partially clear. Pleasant. Moderate breeze, with gusts from S. E. Sent second liberty party ashore. Two English ships left the harbor. A large English ship came in and anchored.

(Signed) Samuel C. Lemly
Ensign.

From 4 to 8 P.M. Cloudy. Pleasant. Light breeze from S. and E. Barometer steady. By order of Commander, placed James V. Marion (O.S.2.C.) in solitary confinement, on bread and water, for insubordination and insolence to Officer of the Deck, and John L. King (B.M.) in double irons for being drunk on duty.

(Signed) Clinton K. Curtis
Lieut.

From 8 to Midnight. Clear. Cool. Pleasant. Light wind, with heavy gusts, from S. E.

(Signed) Samuel C. Lemly
Ensign.

(Signed) Asa Walker,
Lieut
Navigator.

Examined and found to be correct

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, St Helena

Hour.	Knots Fathoms.	WINDS.		BAROMETER.		TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
		Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.			
A.M													
1			S	1-3		29.98	72	73	70	bc	Cum Nimb	3	S
2			"	1-3		29.96	72	73	70	"	"	3	"
3			"	1-3		29.95	72	73	70	"	"	3	"
4			"	1-3		29.96	72	73	70	"	"	3	"
5			SE	2-4		29.96	72	73	71	"	"	5	"
6			"	3		29.97	73	73	71	"	"	4	"
7			"	2-4		29.97	73	74	72	"	"	3	"
8			SSE	2-4		29.98	73	76	74	"	"	3	"
9			"	2-4		29.98	74	76	74	"	"	4	"
10			"	2-4		29.97	74	77	75	"	"	3	"
11			"	2-5		29.96	75	77	75	"	"	4	"
Noon			"	2-5		29.96	75	77	75	"	"	6	"

Distance run by Log since preceding Noon

knots fathoms.

Latitude by D. R. at Noon

° ' "

Longitude by D. R. at Noon

° ' "

Latitude by Observations at Noon ⊕

° ' "

Longitude by Chronometer from Forenoon Observations ⊕

° ' "

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊕ observed at Sunrise

° " "

Variation of the Compass by Azimuth ⊕ observed at

° " "

Water expended during the preceding 24 hours

250 gallons.

Water during the preceding 24 hours

"

Water remaining on hand fit for me at Noon

1000 "

Coal consumed during the preceding 24 hours

tons 250 lbs.

Coal remaining on hand at Noon

109 " 432 "

P.M.

1		SSE	2-5	29.95	76	78	76	bc	Cum Nimb	3	S
2		SE	3-5	29.94	76	78	76	"	"	4	"
3		"	2-4	29.93	76	78	76	"	"	3	"
4		"	3-5	29.92	76	78	76	"	"	4	"
5		"	2-4	29.93	76	77	76	"	"	5	"
6		"	2-4	29.95	75	77	75	"	"	6	"
7		"	2-4	29.96	74	75	75	"	"	6	"
8		"	2-4	29.97	73	75	74	"	"	4	"
9		"	2-4	29.98	74	75	74	"	"	4	"
10		"	2-4	29.99	74	75	73	"	"	3	"
11		"	2-4	29.99	74	75	73	"	"	2	"
Mid.		"	3	29.98	74	75	73	"	"	0	"

Longitude by Chronometer from Afternoon Observations ⊕

° ' "

Longitude by Chronometer Observations]

° ' "

Variation of the Compass by Amplitude observed at Sunset

° ' "

Variation of the Compass by at

° ' "

under the command of Commander Winfield Scott Schley, U. S. Navy.
Sunday January 6th, 1878.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Partially cloudy. Pleasant. Wind moderate from S, with strong gusts. Barometer steady.

(Signed) Clinton K. Curtis
Lieut.

From 4 to 8 A.M. Partially cloudy. Cool. Moderate breeze from S. E. with strong gusts.

(Signed) Charles B. T. Moore
Ensign.

From 8 to Merid. Partially clear. Pleasant. S.S.E. breeze, with heavy gusts. At 9.30 Commander inspected ship and crew at quarters, and immediately after read prayers. The following men were absent without leave, Viz. James O' Donnell (1.C.F.) John McArdle (1.C.F.) Jim A. McDonald (Lds) J.P. Robuk (Lds) James Shields (Lds) Pedreas Olsen (Sea) Charles Wilson (Sea) Thomas Kelly (C.T.) Mich. Mangan (O.S.) Fred Porter (C. Hold) Lewis Zachman (Ord Sea. 2.) E. C. Taylor (P.M.) Frank Maguire (Ls Me) Ed Gall (Cooper). At 11, Ed Gall (Cooper) returned on board.

(Signed) Samuel C. Lemly
Ensign.

From Merid. to 4 P.M. Cloudy. Pleasant. Moderate breeze from S. E. with strong gusts.

(Signed) Charles B. T. Moore
Ensign

From 4 to 8 P.M. Clear. Pleasant. Light breeze, with gusts, from S. E. John McArdle (1.C.F.) and John P. Roberts (Lds) returned on board. Passing showers during first two hours.

(Signed) Samuel C. Lemly
Ensign.

From 8 to Midnight. Cloudy. Cool. Light passing showers. Light breeze from S. and E, with frequent strong puffs.

(Signed) Charles B. T. Moore
Ensign.

(Signed) Asa Walker,
Lieut
Navigator.

Examined and found to be correct

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, St Helena

Hour.	Knots Fathoms.	WINDS.		BAROMETER.		TEMPERATURE.				State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
		Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. air'd.	Air Dry Bulb.	Air Wet Bulb.					
A.M														
1			SSE	2-3		29.98	74	75	73	or	Cum Nimb	0	S	
2			"	2-3		29.97	73	74	72	"	"	0	"	
3			"	2-3		29.97	73	73	72	"	"	0	"	
4			"	2-3		29.96	73	73	71	"	"	0	"	
5			"	2		29.97	73	73	71	"	"	0	"	
6			"	2		29.98	73	73	72	"	"	0	"	
7			"	2		29.99	73	73	72	"	"	0	"	
8			"	2		30.00	73	73	72	bc	"	1	"	
9			"	2		30.00	73	74	72	op	"	0	"	
10			SE	2		30.01	74	75	73	bc	"	3	"	
11			"	2-5		30.00	74	75	73	"	"	3	"	
Noon			"	2		29.99	75	76	74	"	"	4	"	

Distance run by Log since preceding Noon

knots fathoms.

Latitude by D. R. at Noon

° ' "

Longitude by D. R. at Noon

° ' "

Latitude by Observations at Noon ⊕

° ' "

Longitude by Chronometer from Forenoon Observations ⊕

° ' "

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊕ observed at Sunrise

° " "

Variation of the Compass by Azimuth ⊕ observed at

° " "

Water expended during the preceding 24 hours

250 gallons.

Water Received during the preceding 24 hours

2100 "

Water remaining on hand fit for me at Noon

2700 "

Coal consumed during the preceding 24 hours

1 tons 410 lbs.

Coal remaining on hand at Noon

108 " 22 "

P.M.

1		SE	2	29.97	74	76	74	o	Cum Nimb	0	S
2		"	2	29.96	74	76	74	op	"	0	"
3		SSE	2-3	29.95	74	76	74	o	"	0	"
4		S	2-4	29.95	74	76	74	op	"	0	"
5		SSE	2	29.96	74	76	74	o	"	0	"
6		"	2	29.97	74	76	74	bc	"	1	"
7		SE	2	29.98	74	75	73	o	"	0	"
8		"	2	30.00	73	74	72	op	"	0	"
9		"	2	30.02	73	74	72	"	"	0	"
10		"	2-3	30.04	73	74	72	"	"	0	"
11		"	2-3	30.02	73	74	72	"	"	0	"
Mid.		"	2-3	30.02	73	74	72	"	"	0	"

Longitude by Chronometer from Afternoon Observations ⊕

° ' "

Longitude by Chronometer Observations]

° ' "

Variation of the Compass by Amplitude observed at Sunset

° ' "

Variation of the Compass by at

° ' "

under the command of Commander Winfield Scott Schley, U. S. Navy.
Monday January 7th, 1878.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Overcast. Drizzling rain entire watch. Light S.S.E breeze.

(Signed) Samuel C. Lemly
Ensign

From 4 to 8 A.M. Overcast. Pleasant. Light breeze from S. and E. Drizzling rain first part of watch. Received onboard 2100 gallons fresh water.

(Signed) James K. Cogswell
Lieut.

From 8 to Merid. Cloudy, with occasional light showers. Light breeze from S. and E, with strong gusts. At 9.15 inspected at quarters. Sent James Zangitas ashore to American Consul. Char. Zeller (O.S.) J. W. Elms (Lds) John Fanar (Sea) T. G. Roberts (O.S.2.C.) P. A. Emmons (O.S.2.C.) John W. Green (Lds) Geo. P. Wilson (Mach) James McCarthy (1.C.F.) James Sutton (2.C.F.) F. Giles (2.C.F.) W. D. Saddles (2.C.F.) Jas. O' Donnell (1.C.F.) James Hennesy (Mach) absent from the ship without leave. By order of Commander, W. H. Hosmer (Lds) was placed in solitary confinement, on bread and water, for profanity and obscenity.

(Signed) Charles B. T. Moore
Ensign.

From Merid. to 4 P.M. Overcast. Pleasant. Light breeze from S. and E. with occasional fresh gusts. Light drizzling rain part of watch.

(Signed) James K. Cogswell
Lieut.

From 4 to 8 P.M. Overcast, with occasional showers of rain. Light breeze from S. and E, with fresh gusts. English Steamer "Roman" went to sea at 4.15.

(Signed)

From 8 to Midnight. Overcast. Pleasant. Light passing showers first part of watch. At 9, English Mail Steamer "Windsor Castle" came in from S. and anchored. Sent mail onboard.

(Signed) James K. Cogswell
Lieut.

(Signed) Asa Walker,
Lieut
Navigator.

Examined and found to be correct

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, At Helena

Hour.	Knots Fathoms.	WINDS.		BAROMETER.			TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
		Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.				
A.M														
1			SE	2		30.00	73	74	72	bc	Cum Nimb	1	S	
2			"	2		29.98	73	74	72	o	"	0	"	
3			"	3		29.97	73	74	72	"	"	0	"	
4			"	3		29.96	73	74	72	"	"	0	"	
5			"	1-2		29.98	73	73	71	"	"	0	"	
6			"	1-2		29.98	73	73	71	"	"	0	"	
7			"	1-2		30.00	73	73	71	"	"	0	"	
8			"	2-3		30.01	73	73	71	"	"	0	"	
9			"	2-4		30.02	73	73	72	"	"	0	"	
10			"	2-3		30.00	73	74	72	"	"	0	"	
11			"	2-3		30.00	73	75	73	"	"	0	"	
Noon			"	2-3		30.00	74	77	74	"	"	0	"	

Distance run by Log since preceding Noon

knots

fathoms.

Latitude by D. R. at Noon

o

'

"

Longitude by D. R. at Noon

o

'

"

Latitude by Observations at Noon ⊕

o

'

"

Longitude by Chronometer from Forenoon Observations ⊕

o

'

"

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊕ observed at Sunrise

o

"

"

Variation of the Compass by Azimuth ⊕ observed at

o

"

"

Water expended during the preceding 24 hours

300 gallons.

Water during the preceding 24 hours

"

Water remaining on hand fit for me at Noon

2400

"

Coal consumed during the preceding 24 hours

tons

250

lbs.

Coal remaining on hand at Noon

107

"

2012

"

P.M.

1		S	1-3	29.97	75	77	74	o	Cum Nimb	0	S
2		"	2	29.95	75	77	74	"	"	0	"
3		"	2	29.94	75	77	74	"	"	0	"
4		"	2	29.93	75	76	74	"	"	0	"
5		SSE	2	29.92	74	76	74	"	"	0	"
6		SE	2-3	29.93	73	75	73	"	"	0	"
7		"	2	29.94	72	74	73	"	"	0	"
8		"	2-3	29.94	73	73	72	"	"	0	"
9		"	2	29.96	73	73	72	bc	"	1	"
10		"	2	29.97	73	73	72	"	"	1	"
11		"	2	29.97	73	73	72	"	"	1	"
Mid.		"	2-3	29.96	73	73	72	"	"	0	"

Longitude by Chronometer from Afternoon Observations ⊕

o

'

"

Longitude by Chronometer Observations

o

'

"

Variation of the Compass by Amplitude observed at Sunset

o

'

"

Variation of the Compass by at

o

'

"

under the command of Commander Winfield Scott Schley, U. S. Navy.
Tuesday January 8th, 1878.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Overcast. Cool. Pleasant. Light breeze from S. E. Sent Daniel McDonald (Ships Barber) and M.W. Angus (P.M.) on board English Steamer "Warwick Castle" for passage to New York. At 3.15 the "Warwick Castle" stood out to sea.

(Signed) Charles B. T. Moore
Ensign.

From 4 to 8 A.M. Cloudy. Cool. Light breeze from S. E. with occasional strong gust. At 6.30 a French barque came in and anchored, and English full rigged ship stood off and on during entire watch.

(Signed) Clinton K. Curtis
Lieut.

From 8 to Merid. Overcast. Pleasant. Light breeze from S. and E. Engaged in painting ship outside. At 9.45 Summary Court Martial convened for the trial of John L. King (B.M.) Adjourned at 11.45. Received on board in Construction Dept. three pieces of scantling timber. By order of Commander, J. V. Marion (O.S.2.C.) was released from confinement.

(Signed) James K. Cogswell
Lieut.

From Merid. to 4 P.M. Cloudy. Pleasant. Moderate breeze from S. Finished painting ship outside. American Barque "Hosea A. Rich" came in and anchored.

(Signed) Clinton K. Curtis
Lieut.

From 4 to 8 P.M. Overcast. Pleasant. Light breeze from S. and E. Henry Lawrence (2.C.F.) James Sutton (2.C.F.) Jim Donovan (2.C.F.) James Shields (Lds) James McCarthy (1.C.F.) and J. W. Eleses (Lds) was brought on board, having been delivered up by the police. Sent an officer on board the American barque "Hosea A. Rich".

(Signed) James K. Cogswell
Lieut.

From 8 to Midnight. Cloudy. Cool. Wind light from S. and E. with strong gusts during last hour. Barometer steady.

(Signed) C. K. Curtis
Lieut.

(Signed) Asa Walker,
Lieut
Navigator.

Examined and found to be correct

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, St Helena

Hour.	Knots Fathoms.	WINDS.		BAROMETER.		TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
		Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.			
A.M													
1			SE	1-3		29.95	73	73	72	o	Cum Nimb	0	S
2			"	1-3		29.94	72	73	72	"	"	0	"
3			"	1-3		29.92	72	73	72	"	"	0	"
4			S	1-3		29.93	72	73	71	"	"	0	"
5			"	1		29.95	72	73	72	bc	"	1	"
6			SE	1		29.96	72	73	72	"	"	2	"
7			"	1		29.97	71	73	72	"	"	2	"
8			"	1-2		29.97	71	73	72	"	"	2	"
9			"	1-2		29.97	71	73	72	"	"	2	"
10			S	1-2		29.97	72	75	73	"	"	2	"
11			SSW	1-2		29.97	72	75	74	"	"	1	"
Noon			"	1-2		29.97	73	76	74	"	"	1	"

Distance run by Log since preceding Noon

knots

fathoms.

Latitude by D. R. at Noon

o

'

"

Longitude by D. R. at Noon

o

'

"

Latitude by Observations at Noon ⊕

o

'

"

Longitude by Chronometer from Forenoon Observations ⊕

o

'

"

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊕ observed at Sunrise

o

"

"

Variation of the Compass by Azimuth ⊕ observed at

o

"

"

Water expended during the preceding 24 hours

300 gallons.

Water during the preceding 24 hours

"

Water remaining on hand fit for me at Noon

2100

"

Coal consumed during the preceding 24 hours

tons

250

lbs.

Coal remaining on hand at Noon

107

"

1762

"

P.M.

1			SE	2		29.96	74	76	74	bc	Cum Nimb	1	S
2			"	3		29.94	74	76	74	"	"	1	"
3			"	2-3		29.92	74	76	74	"	"	1	"
4			"	2-3		29.92	74	76	74	"	"	1	"
5			"	1-2		29.92	74	76	74	"	"	1	"
6			"	1-2		29.90	74	75	73	"	"	1	"
7			"	1-2		29.90	74	74	72	"	"	1	"
8			"	1-2		29.90	73	74	72	"	"	1	"
9			"	2		29.91	73	74	72	"	"	2	"
10			"	2		29.92	73	73	72	"	"	2	"
11			"	2-3		29.93	73	73	72	"	"	5	"
Mid.			"	2-3		29.93	73	73	72	"	"	5	"

Longitude by Chronometer from Afternoon Observations ⊕

o

'

"

Longitude by Chronometer Observations

]

o

'

"

Variation of the Compass by Amplitude

observed at Sunset

o

'

"

Variation of the Compass by

at

o

'

"

under the command of Commander Winfield Scott Schley, U. S. Navy.
Wednesday January 9th, 1878.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Overcast and pleasant. Light breeze from S. and E.

(Signed) James K. Cogswell
Lieut.

From 4 to 8 A.M. Pleasant. Light S.E. airs. Cum. Nimb. clouds. Received in Pay Dept. 158 lbs fresh beef and 130 lbs vegetables. English brig came in and anchored. John W. Magee (2.C.F.) Fred Porter (C. Hold) and Michael Mangan (O.S.) were brought on board by the police, a reward having been offered for them.

(Signed) Samuel C. Lemly
Ensign.

From 8 to Merid. Cloudy. Pleasant. Wind light from S. and W. Barometer steady. By order of Commander, released W. H. Hosmer (Lds) from confinement. At 9.30 inspected at quarters.

(Signed) Clinton K. Curtis
Lieut.

From Merid. to 4 P.M. Cloudy. Cool. Pleasant. Light breeze, with gusts, from S.E. An American bark and Dutch ship left the harbor. An English bark came in and anchored.

(Signed) Samuel C. Lemly
Ensign.

From 4 to 8 P.M. Cloudy. Pleasant. Light breeze from S. and E. American bark "Sabine" came in and anchored. Corpl. Jones was brought on board by local police.

(Signed) Clinton K. Curtis.
Lieut.

From 8 to Midnight. Partially clear. Pleasant. Light S. E. breeze. Cum. Nimb. clouds. At 8.30 a vessel came in and anchored.

(Signed) Asa Walker
Lieut.

(Signed) Asa Walker,
Lieut
Navigator.

Examined and found to be correct

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns,
St Helena

Hour.	Knots.	Fathoms.	Courses steered.	WINDS.			BAROMETER.		TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
			Direction.	Force.	Leeway.	Height in inches.	Ther. atfd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.						
A,M																
1				SE	1		29.93	73	73	73		bc	Cum Nimb	1	S	
2				"	1		29.93	73	73	73		"	"	1	"	
3				"	1		29.91	73	73	73		"	"	1	"	
4				"	1		29.91	73	73	73		"	"	1	"	
5				"	2		29.93	72	72	71		op	"	0	"	
6				"	2		29.93	72	72	71		or	"	0	"	
7				S	2		29.94	72	72	71		"	"	0	"	
8				"	1-2		29.95	72	73	72		op	"	0	"	
9				SE	1-3		29.96	73	74	72		bc	"	1	"	
10				"	1-3		29.96	74	75	73		"	"	1	"	
11				"	1-3		29.95	74	76	74		"	"	2	"	
Noon				"	1-3		29.94	74	76	74		"	"	2	"	

Distance run by Log since preceding Noon	knots	fathoms.		
Latitude by D. R. at Noon	0	1	2	3
Longitude by D. R. at Noon	0	1	2	3
Latitude by Observations at Noon ⊕	0	1	2	3
Longitude by Chronometer from Forenoon Observations ⊕	0	1	2	3
Current during the time	knots	fms. per hour, setting to the		
Variation of the Compass by Amplitude ⊕ observed at Sunrise	0	1	2	3
Variation of the Compass by Azimuth ⊕ observed at	0	1	2	3
Water expended during the preceding 24 hours				300 gallons
Water	during the preceding 24 hours			"
Water remaining on hand fit for me at Noon				1800 "
Coal consumed during the preceding 24 hours	tons	250	lbs.	
Coal remaining on hand at Noon	107	"	1512	"

P,M										
1	S	2	29.94	75	76	74	bc	Cum Nimb	1	S
2	"	3	29.93	75	76	74	o	"	0	"
3	"	2	29.91	75	76	74	bc	"	2	"
4	"	2-4	29.90	75	76	74	o	"	0	"
5	SE	2-4	29.91	74	76	73	bc	"	1	"
6	"	2-4	29.92	74	75	73	o	"	1	"
7	"	2-4	29.93	73	75	72	op	"	0	"
8	"	2-4	29.94	72	74	72	o	"	0	"
9	"	2-4	29.96	72	74	72	bc	"	0	"
10	"	2-4	29.97	72	74	72	"	"	5	"
11	"	2-4	29.97	72	74	72	"	"	3	"
Mid.	S	2-4	29.95	72	74	72	o	"	0	"

Longitude by Chronometer from Afternoon Observations ⊕	0	'	"
Longitude by Chronometer Observations	0	'	"
Variation of the Compass by Amplitude	0	'	"
observed at Sunset			
Variation of the Compass by	0	'	"
at			

under the command of Commander Winfield Scott Schley, U. S. Navy.
Thursday January 10th, 1878.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Cloudy. Pleasant. Wind light from S. E. Cum. Nimb. clouds.

(Signed) Clinton K. Curtis
Lieut.

From 4 to 8 A.M. Overcast. Light drizzling rain. Light breeze from S. and E. Received onboard
158 lbs beef and 130 lbs vegetables for crew. British ship "Wylo" came in and anchored.

(Signed) Charles B. T. Moore
Ensign.

From 8 to Merid. Cloudy. Pleasant. Light S. E. breeze. Cum. Nimb. clouds. At 9.15 inspected at
quarters. An English ship came in and anchored. By order of Commanding Officer, the following
punishments were assigned. John Hall (O.S.2.C.) disrespect, solitary confinement on bread and
water. J. V. Marion (O.S.2.C.) not going in boat when called away, three times in 24 hours, 12
hours extra duty. C. J. Owen (O.S.) shoes in lucky bag, 4 hours extra duty. The following
officers were detailed by Commander to survey the hull, rudder and cargo of American bark
"Sabine". Lieutenants Asa Walker, C. K. Curtis and Carpenter W. W. Richardson.

(Signed) Samuel C. Lemly
Ensign.

From Merid. to 4 P.M. Overcast. Pleasant. Light breeze from S.

(Signed) Charles B. T. Moore
Ensign.

From 4 to 8 P.M. Cloudy with light passing showers, latter part of watch. Light breeze, with
gusts, from S. E. Three English vessels left the harbor. Sent a reward ashore for the following
men absent without leave. Joseph Barry (Pay Yeo) Wm Barker (Lds) and Patrick B. Cass (C &
C). P. B. Cass (C & C) and Thomas G. Roberts (O S 2 C) returned on board 32 and 96 hours
overtime respectively.

(Signed) Samuel C. Lemly
Ensign.

From 8 to Midnight. Cloudy. Cool. Pleasant. Light breeze from S. and E, with fresh gusts.

(Signed) Charles B. T. Moore
Ensign.

Examined and found to be correct

Asa Walker, Lieut
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, St Helena

Hour.	Knots Fathoms.	WINDS.		BAROMETER.			TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
		Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.				
A.M														
1			SE	1-2		29.94	72	74	72	bc	Cum Nimb	2	S	
2			"	1-2		29.94	72	74	72	"	"	2	"	
3			"	2-3		29.93	72	74	72	o	"	0	"	
4			"	2		29.92	72	74	72	bc	"	1	"	
5			"	2		29.93	72	73	72	o	"	0	"	
6			"	2		29.94	72	73	72	"	"	0	"	
7			"	2		29.94	72	73	72	op	"	0	"	
8			"	2		29.95	72	73	72	"	"	0	"	
9			"	2-4		29.95	72	73	72	"	"	0	"	
10			"	2-4		29.96	72	74	73	"	"	0	"	
11			"	2-4		29.97	73	75	74	"	"	0	"	
Noon			"	3		29.97	73	75	74	bc	"	2	"	

Distance run by Log since preceding Noon

knots

fathoms.

Latitude by D. R. at Noon

o

'

"

Longitude by D. R. at Noon

o

'

"

Latitude by Observations at Noon ⊕

o

'

"

Longitude by Chronometer from Forenoon Observations ⊕

o

'

"

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊕ observed at Sunrise

o

"

"

Variation of the Compass by Azimuth ⊕ observed at

o

"

"

Water expended during the preceding 24 hours

300 gallons.

Water during the preceding 24 hours

"

Water remaining on hand fit for me at Noon

1500 "

Coal consumed during the preceding 24 hours

tons 250 lbs.

Coal remaining on hand at Noon

107

"

1262 "

P.M.

1		ESE	2-3	29.95	74	75	74	bc	Cum Nimb	2	S	
2		SE	2-3	29.94	74	75	74	"	"	1	"	
3		"	2-3	29.93	74	75	74	"	"	1	"	
4		SSE	2-3	29.92	74	76	74	"	"	1	"	
5		SE	2-4	29.93	74	76	74	"	"	2	"	
6		"	2-4	29.94	74	75	73	"	"	1	"	
7		"	2-4	29.94	73	74	73	"	"	0	"	
8		"	2-4	29.95	73	74	73	"	"	2	"	
9		ESE	2-5	29.94	73	73	72	"	"	2	"	
10		"	2-5	29.94	73	73	72	"	"	2	"	
11		"	2-5	29.94	73	73	72	"	"	2	"	
Mid.		"	2-5	29.94	73	73	72	"	"	2	"	

Longitude by Chronometer from Afternoon Observations ⊕

o

'

"

Longitude by Chronometer Observations]

o

'

"

Variation of the Compass by Amplitude observed at Sunset

o

'

"

Variation of the Compass by at

o

'

"

under the command of Commander Winfield Scott Schley, U. S. Navy.
Friday January 11th, 1878.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Cloudy. Pleasant. Light S. E. breeze. Cum. Nimb. clouds.

(Signed) Samuel C. Lemly
Ensign.

From 4 to 8 A.M. Overcast and pleasant. Light breeze from S. and E.

(Signed) James K. Cogswell
Lieut.

From 8 to Merid. Overcast, with passing showers. Moderate breeze from S. E. At 9.15 inspected at quarters. Called all hands to muster and read the sentence of the Summary Court Martial, in the case of John L. King (B.M.) Sentenced to be reduced to the rate of seaman, and to extra police duty for three months.

(Signed) Charles B. T. Moore
Ensign.

From Merid. to 4 P.M. Cloudy and pleasant. Light breeze from S. and E. Asa B. Mitchell (Lds) James Gillespie (O.S.) James Lestlanger (C. Smith) Walter Caster (F.C.F.) Henry Simpson (1.C.F.) Michael Hayes (1.C.F.) Jas. Hughes (2.C.F.) and Joseph Barry (Pay Yeo) were brought on board, having been delivered up by the police.

(Signed) James K. Cogswell
Lieut.

From 4 to 8 P.M. Cloudy, with light passing showers. Light breeze from S. E. Received on board the following medical stores, Viz. 8 lbs Magms Sulphur. 1 lb Chloroform. 2 lbs Ether Sulphuric. 1 lb Sr. Ferri Chlor. 2 lbs Adepis Cuatums. 1 lb Spt. Ether Nit. 1/2 lb Ammonia Merc. 1 lb Ammonia Aqua. 07 Turpentine Oleum. 4 oz Acid Hydro Chloric. 8 pts. Alcohol.

(Signed) Charles B. T. Moore
Ensign.

From 8 to Midnight. Cloudy and pleasant. Light breeze, with frequent strong puffs, from S. and E.

(Signed) James K. Cogswell
Lieut.

(Signed) Asa Walker,
Lieut
Navigator.

Examined and found to be correct

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, St Helena

Hour.	Knots Fathoms.	WINDS.		BAROMETER.		TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
		Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.			
A.M													
1			ESE	2-4		29.95	73	74	72	bcp	Cum Nimb	2	S
2			"	2-4		29.95	73	74	72	"	"	5	"
3			SE	2-4		29.96	72	74	72	op	"	0	"
4			"	2-4		29.96	72	74	72	"	"	0	"
5			"	2-3		29.97	72	72	71	"	"	0	"
6			"	2-2		29.99	72	72	71	bcp	"	1	"
7			"	2-2		30.00	72	72	71	"	"	2	"
8			ESE	2-2		30.02	72	72	71	"	"	2	"
9			SE	1-3		30.02	72	72	71	"	"	1	"
10			"	1-3		30.03	72	73	72	op	"	0	"
11			"	2-3		30.02	73	74	73	o	"	0	"
Noon			"	2-3		30.00	73	74	73	"	"	0	"

Distance run by Log since preceding Noon

knots fathoms.

Latitude by D. R. at Noon

° ' "

Longitude by D. R. at Noon

° ' "

Latitude by Observations at Noon ⊕

° ' "

Longitude by Chronometer from Forenoon Observations ⊕

° ' "

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊕ observed at Sunrise

° " "

Variation of the Compass by Azimuth ⊕ observed at

° " "

Water expended during the preceding 24 hours

300 gallons.

Water during the preceding 24 hours

1600 "

Water remaining on hand fit for me at Noon

2900 "

Coal consumed during the preceding 24 hours

tons 250 lbs.

Coal remaining on hand at Noon

107 " 1012 "

P.M.

1		S	2-3	29.98	75	76	74	bc	Cum Nimb	1	S
2		"	2-3	29.98	75	77	75	"	"	1	"
3		SE	2-3	29.98	75	76	75	"	"	1	"
4		"	2-3	29.97	74	76	74	"	"	1	"
5		"	2-3	29.97	74	76	73	"	"	2	"
6		"	2-3	29.98	73	75	73	"	"	3	"
7		"	2-3	29.98	73	74	72	op	"	0	"
8		"	2-3	29.99	72	74	72	"	"	0	"
9		"	2-3	30.00	72	74	72	"	"	0	"
10		"	2-3	30.00	72	74	72	bc	"	1	"
11		"	2-3	30.00	72	74	72	bcp	"	1	"
Mid.		"	2-3	30.00	72	74	72	bc	"	1	"

Longitude by Chronometer from Afternoon Observations ⊕

° ' "

Longitude by Chronometer Observations

° ' "

Variation of the Compass by Amplitude observed at Sunset

° ' "

Variation of the Compass by at

° ' "

under the command of Commander Winfield Scott Schley, U. S. Navy.
Saturday January 12th, 1878.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Cloudy first part. Overcast latter part. Light passing showers. Light breeze, with gusts, from S. and E.'

(Signed) Charles B. T. Moore
Ensign.

From 4 to 8 A.M. Cloudy. Light breeze from S. and E. Frequent light showers during watch. At 6.30 H.B.M. Corvette "Avon" got underway and left the harbor.

(Signed) Clinton K. Curtis
Lieut.

From 8 to Merid. Cloudy and pleasant. Moderate breeze from S.E. Passing showers. W.G. Norwood (Sea) returned from liberty, 40 hours overtime, also Wm. Barker (Sea) 48 hours overtime. Heavy swell from E. setting into the harbor.

(Signed) James K. Cogswell
Lieut.

From Merid. to 4 P.M. Cloudy. Light breeze from S. and E, with strong gusts. Received onboard 1600 gals. of water. An American Barkentine, and English Bark, a French Bark, and a Swedish Bark came in and anchored.

(Signed) Clinton K. Curtis
Lieut.

From 4 to 8 P.M. Overcast and pleasant. Light breeze from S.E. with strong gusts. Light passing showers.

(Signed) T. D. Griffin
Midshipman.

From 8 to Midnight. Cloudy. Cool. Moderate breeze from S. and E. with strong gusts. Occasional light showers. American Barkentine "William Cobb" got underway and left the harbor.

(Signed) Clinton K. Curtis

(Signed) Asa Walker,
Lieut
Navigator.

Examined and found to be correct

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, St Helena

Hour.	Knots Fathoms.	WINDS.		BAROMETER.			TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
		Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.				
A.M														
1			SE	2-4		29.98	72	73	72	bc	Cum Nimb	3	S	
2			"	2-4		29.96	72	73	72	"	"	5	"	
3			"	2-4		29.	72	73	72	"	"	4	"	
4			"	2-4		29.	72	73	72	op	"	0	"	
5			"	2-4		29.	72	73	72	"	"	0	"	
6			"	2-4		29.	71	73	72	"	"	0	"	
7			"	2-4		29.	71	73	71	"	"	0	"	
8			"	2-4		29.	71	73	71	"	"	0	"	
9			"	2-3		29.	73	74	72	o	"	0	"	
10			"	1-3		29.	74	75	73	bc	"	1	"	
11			"	1-3		29.	74	76	74	"	"	1	"	
Noon			"	1-3		29.	75	77	75	"	"	1	"	

Distance run by Log since preceding Noon

knots fathoms.

Latitude by D. R. at Noon

° ' "

Longitude by D. R. at Noon

° ' "

Latitude by Observations at Noon ⊕

° ' "

Longitude by Chronometer from Forenoon Observations ⊕

° ' "

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊕ observed at Sunrise

° " "

Variation of the Compass by Azimuth ⊕ observed at

° " "

Water expended during the preceding 24 hours

300 gallons.

Water during the preceding 24 hours

"

Water remaining on hand fit for me at Noon

2600 "

Coal consumed during the preceding 24 hours

tons 250 lbs.

Coal remaining on hand at Noon

107 " 762 "

P.M.

1			SE	2-4		30.00	75	77	75	bc	Cum Nimb	1	S	
2			"	2-4		29.98	75	77	75	"	"	1	"	
3			"	2-4		29.98	75	77	75	"	"	2	"	
4			"	2-4		29.97	75	77	75	"	"	2	"	
5			"	1-3		29.97	75	77	75	"	"	2	"	
6			"	1-3		29.97	75	75	73	"	"	2	"	
7			"	1-3		29.98	75	75	72	"	"	2	"	
8			"	1-3		29.98	75	75	72	bcp	"	2	"	
9			"	1-3		29.98	75	75	72	bc	"	2	"	
10			"	1-3		29.99	74	75	72	"	"	2	"	
11			"	1-3		29.99	73	75	72	"	"	2	"	
Mid.			"	1-3		29.99	73	75	72	bcp	"	2	"	

Longitude by Chronometer from Afternoon Observations ⊕

° ' "

Longitude by Chronometer Observations]

° ' "

Variation of the Compass by Amplitude observed at Sunset

° ' "

Variation of the Compass by at

° ' "

under the command of Commander Winfield Scott Schley, U. S. Navy.
Sunday January 13th, 1878.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Cloudy and pleasant. Moderate breeze from S. E. Heavy swell setting into harbor, from N. W. Passing showers latter part of watch.

(Signed) T. D. Griffin
Midshipman.

From 4 to 8 A.M. Overcast. Passing showers. Cool. Light breeze with gusts from S.E. Two ships and a bark came in and anchored. Received in pay department, 158 lbs of fresh beef and 130 lbs of vegetables.

(Signed) Samuel C. Lemly
Ensign.

From 8 to Merid. Cloudy. Moderate breeze from S. and E, with strong gusts. At 9.30 Commander inspected ship and crew. Immediately after held devine [divine] service on quarter deck. An English full rigged ship came in and anchored. Philip Kincade (Ships Cook) and P. Connelly (Corpl) absent without leave.

(Signed) Clinton K. Curtis
Lieut.

From Merid. to 4 P.M. Cloudy. Warm. Moderate S. E. breeze. Cum. Nimb. clouds. An English bark came in and anchored. An English ship, two barks and a Swedish bark left the harbor.

(Signed) Samuel C. Lemly
Ensign.

From 4 to 8 P.M. Cloudy, with occasional light drizzling showers. Wind light, with strong gusts from S. E. A Dutch bark got underway and left the harbor.

(Signed) Clinton K. Curtis
Lieut.

From 8 to Midnight. Cloudy. Pleasant. Light S. E. breeze. Cum. Nimb. clouds. Passing showers last hour.

(Signed) Samuel C. Lemly
Ensign.

(Signed) Asa Walker,
Lieut
Navigator.

Examined and found to be correct

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, St Helena

Hour.	Knots Fathoms.	WINDS.		BAROMETER.			TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
		Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.				
A.M														
1			SE	2-4		29.97	72	73	72	bc	Cum Nimb	1	S	
2			"	2-4		29.98	72	73	71	"	"	2	"	
3			"	2-4		29.99	72	73	71	"	"	2	"	
4			"	2-4		30.00	72	73	71	"	"	4	"	
5			"	2-4		30.00	72	73	71	"	"	5	"	
6			"	2-4		30.01	72	74	72	"	"	2	"	
7			"	2		30.01	73	74	72	o	"	0	"	
8			"	2		30.02	73	74	72	"	"	0	"	
9			"	2		30.03	73	74	72	bc	"	1	"	
10			"	2		30.04	73	74	72	"	"	1	"	
11			"	2		30.03	73	75	72	"	"	2	"	
Noon			"	2		30.02	74	75	74	"	"	4	"	

Distance run by Log since preceding Noon

knots

fathoms.

Latitude by D. R. at Noon

o

'

"

Longitude by D. R. at Noon

o

'

"

Latitude by Observations at Noon ⊕

o

'

"

Longitude by Chronometer from Forenoon Observations ⊕

o

'

"

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊕ observed at Sunrise

o

"

"

Variation of the Compass by Azimuth ⊕ observed at

o

"

"

Water expended during the preceding 24 hours

300 gallons.

Water during the preceding 24 hours

"

Water remaining on hand fit for me at Noon

2300

"

Coal consumed during the preceding 24 hours

tons

250

lbs.

Coal remaining on hand at Noon

107

"

512

"

P.M.

1		SSE	2		30.00	75	77	74	bc	Cum Nimb	3	S	
2		S	1		29.98	75	77	75	"	"	2	"	
3		NNW	1		29.97	75	77	75	"	"	2	"	
4		NW	1		29.97	75	77	75	"	"	1	"	
5		"	0-1		29.99	75	76	75	"	"	3	"	
6		Calm	0		29.99	75	75	75	"	"	2	"	
7		W	1		29.99	74	75	74	"	"	1	"	
8		SE	1		30.00	74	75	73	"	"	2	"	
9		S	1		30.01	74	75	73	"	"	1	"	
10		"	2		30.03	74	75	73	"	"	2	"	
11		"	2		30.02	73	74	72	"	"	4	"	
Mid.		"	2		30.01	73	74	72	"	"	5	"	

Longitude by Chronometer from Afternoon Observations ⊕

o

'

"

Longitude by Chronometer Observations

]

o

'

"

Variation of the Compass by Amplitude

observed at Sunset

o

'

"

Variation of the Compass by

at

o

'

"

under the command of Commander Winfield Scott Schley, U. S. Navy.
Monday January 14th, 1878.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Cloudy. Cool. Wind light from S.E. with strong gusts. Barometer steady.

(Signed) Clinton K. Curtis
Lieut.

From 4 to 8 A.M. Cloudy. Cool. Pleasant. Light breeze from S. and E.

(Signed) Charles B. T. Moore
Ensign.

From 8 to Merid. Cloudy. Cool. Pleasant. Light S. E. breeze. Cum. Nimb. clouds. At 9.15 exercised at general quarters. Time as follows. Cast loose in 5 m 30 s. Secured in 4 m 45 s. James Brown (C.F.C.) absent without leave.

(Signed) Samuel C. Lemly
Ensign.

From Merid. to 4 P.M. Cloudy. Pleasant. Light variable airs. James Brown (C.F.C.) was brought on board by police. James Brown (C.F.C) was placed in double irons to await action of Commander. By order of Commanding Officer, for being disrespectful in language and deportment to his superior officer.

(Signed) Charles B. T. Moore
Ensign.

From 4 to 8 P.M. Cloudy. Cool. Pleasant. Calm and light variable airs. Four English Merchantmen got underway and stood to sea. At 6 mustered at quarters and served out clean hammocks. An English bark came in and anchored. John Hall (O.S.2.C.) was released from confinement by order of Commander.

(Signed) Samuel C. Lemly
Ensign.

From 8 to Midnight. Cloudy. Cool. Pleasant. Moonlight. Light breeze from S.

(Signed) Charles B. T. Moore
Ensign.

Examined and found to be correct

(Signed) Asa Walker,
Lieut
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, St Helena

Hour.	Knots Fathoms.	WINDS.		BAROMETER.			TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
		Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.				
A.M														
1			SE	2-3		30.01	74	73	72	bc	Cum Nimb	5	S	
2			"	2-3		30.00	74	73	72	"	"	5	"	
3			"	2-3		29.99	73	73	72	"	"	4	"	
4			"	2-3		29.97	73	73	72	"	"	4	"	
5			"	2		29.94	72	73	72	"	"	6	"	
6			"	1		29.94	74	73	72	"	"	7	"	
7			"	1		29.97	74	74	72	"	"	8	"	
8			"	1		30.00	74	75	73	"	"	8	"	
9			S	2-4		30.00	74	76	74	"	"	5	"	
10			"	2-4		30.01	74	77	75	"	Cir Cum Cum Nimb	3	"	
11			"	3		30.01	75	77	75	"	"	4	"	
Noon			"	3		29.98	76	78	75	"	"	6	"	

Distance run by Log since preceding Noon

knots

fathoms.

Latitude by D. R. at Noon

°

'

"

Longitude by D. R. at Noon

°

'

"

Latitude by Observations at Noon ⊕

°

'

"

Longitude by Chronometer from Forenoon Observations ⊕

°

'

"

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊕ observed at Sunrise

°

"

"

Variation of the Compass by Azimuth ⊕ observed at

°

"

"

Water expended during the preceding 24 hours

300 gallons.

Water during the preceding 24 hours

"

Water remaining on hand fit for me at Noon

2000

"

Coal consumed during the preceding 24 hours

tons

250 lbs.

Coal remaining on hand at Noon

107

"

262

"

P.M.

1		SSE	2-3	29.96	76	78	75	bc	Cir Cum	6	S	
2		"	2-3	29.94	76	78	75	"	"	7	"	
3		"	2-3	29.93	76	78	75	"	"	8	"	
4		"	2-3	29.91	76	78	75	"	"	8	"	
5		"	2	29.90	76	77	75	"	"	5	"	
6		"	2	29.91	75	76	74	"	"	6	"	
7		S	2	29.92	74	75	74	"	"	6	"	
8		"	2	29.92	74	74	72	"	"	8	"	
9		SE	2	29.95	73	74	72	"	"	8	"	
10		SSE	2	29.95	73	74	72	"	"	6	"	
11		"	2	29.96	73	74	72	"	"	4	"	
Mid.		"	2	29.96	73	74	72	"	"	4	"	

Longitude by Chronometer from Afternoon Observations ⊕

°

'

"

Longitude by Chronometer Observations

]

°

'

"

Variation of the Compass by Amplitude

observed at Sunset

°

'

"

Variation of the Compass by

at

°

'

"

under the command of Commander Winfield Scott Schley, U. S. Navy.
Tuesday January 15th, 1878.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear. Cool. Light wind, with gusts, from S. E. Bright moonlight.

(Signed) Samuel C. Lemly
Ensign.

From 4 to 8 A.M. Clear and pleasant. Light airs from S. and E. Crossed topgallant yards and loosed sail.

(Signed) James K. Cogswell
Lieut.

From 8 to Merid. Cloudy. Pleasant. Moderate breeze from S. At 9.15 inspected at quarters. Exercised at battalion drill. At 10.15 furled sail. The following punishments were ordered. W. E. Robinson (Lds) six hours extra duty. J. V. Marion (O.S.2.C.) 12 hours extra duty. And E. E. Barclay (O.S.2.C.) 12 hours extra duty. By order of Commanding Officer, James Brown (C.F.C.) was released from confinement in double irons, and placed in confinement in single irons to await trial by Court Martial.

(Signed) Charles B. T. Moore
Ensign.

From Merid. to 4 P.M. Clear and pleasant. Moderate breeze from S. and E.

(Signed) James K. Cogswell
Lieut.

From 4 to 8 P.M. Clear and pleasant. Light breeze from S. and E. At 4.30 English Steamer "Trenton" came in and anchored. Sent mail on board. An English brig came in anchored.

(Signed) Charles B. T. Moore
Ensign.

From 8 to Midnight. Cloudy and pleasant. Light breeze from S. and E. English Mail Steamer "Trenton" left the harbor at 9.30.

(Signed) James K. Cogswell
Lieut.

(Signed) Asa Walker,
Lieut
Navigator.

Examined and found to be correct

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, St Helena

Hour.	Knots Fathoms.	WINDS.		BAROMETER.			TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
		Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.				
A.M														
1			S	2		29.95	73	74	73	bc	Cum Nimb	3	S	
2			"	2		29.95	73	74	73	"	"	0	"	
3			"	1		29.94	73	74	73	"	"	2	"	
4			"	1		29.94	73	74	73	"	"	1	"	
5			"	2		29.96	73	74	73	"	"	1	"	
6			"	2		29.98	73	74	73	"	"	1	"	
7			SE	2		29.98	73	75	73	"	"	1	"	
8			"	2		29.98	74	75	73	"	"	1	"	
9			E	2		30.01	74	76	74	"	"	1	"	
10			"	2		30.02	74	76	74	"	"	2	"	
11			"	1-2		30.03	75	77	75	"	"	5	"	
Noon			SE	1-2		30.03	76	78	76	"	"	7	"	

Distance run by Log since preceding Noon

knots

fathoms.

Latitude by D. R. at Noon

o

'

"

Longitude by D. R. at Noon

o

'

"

Latitude by Observations at Noon ⊕

o

'

"

Longitude by Chronometer from Forenoon Observations ⊕

o

'

"

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊕ observed at Sunrise

o

"

"

Variation of the Compass by Azimuth ⊕ observed at

o

"

"

Water expended during the preceding 24 hours

300 gallons.

Water during the preceding 24 hours

"

Water remaining on hand fit for me at Noon

1700

"

Coal consumed during the preceding 24 hours

tons

250 lbs.

Coal remaining on hand at Noon

107

"

12

"

P.M.

1			SE	1-2		29.99	76	78	76	bc	Cum	7	S	
2			"	1		29.97	76	79	76	"	"	7	"	
3			"	1		29.95	76	79	76	"	"	7	"	
4			"	1		29.94	76	79	76	"	"	7	"	
5			"	1		29.94	76	79	75	"	"	7	"	
6			"	1		29.96	76	77	75	"	"	7	"	
7			"	2		29.97	74	76	74	"	"	7	"	
8			"	1		29.98	74	75	74	"	"	2	"	
9			"	1		29.99	74	74	72	"	"	2	"	
10			"	1		30.00	74	74	72	"	"	3	"	
11			"	1-2		30.00	74	74	72	"	"	4	"	
Mid.			"	1-2		30.00	74	74	72	"	"	4	"	

Longitude by Chronometer from Afternoon Observations ⊕

o

'

"

Longitude by Chronometer Observations

]

o

'

"

Variation of the Compass by Amplitude

observed at Sunset

o

'

"

Variation of the Compass by

at

o

'

"

under the command of Commander Winfield Scott Schley, U. S. Navy.
Wednesday January 16th, 1878.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Cloudy. Cool. Pleasant. Light breeze from S. Moonlight. By order of Commander, W. G. Robinson (Lds) stood four hours on quarter deck.

(Signed) Charles B. T. Moore
Ensign.

From 4 to 8 A.M. Cloudy. Pleasant. Light breeze from S. and E. An English full rigged ship got underway and left the harbor.

(Signed) Clinton K. Curtis
Lieut.

From 8 to Merid. Pleasant. Light breeze from S. and E. At 9.15 inspected at quarters. Exercised 1st and 2nd Div. at great guns, Marine Guard at small arms. Received in Pay Dept. 180 bags of bread and 100 lbs soap.

(Signed) James K. Cogswell
Lieut.

From Merid. to 4 P.M. Clear. Pleasant. Warm. Light S. E. breeze. Received in Pay Dept. 10 Bbls Beef, 15 Bbls Pork, 2 Bbls White Beans, 1 Bbl Rice. 1 Cask Vinegar, 2 Firkins Butter. Engaged in setting up head stays.

(Signed) Clinton K. Curtis
Lieut.

From 4 to 8 P.M. Cloudy. Pleasant. Light breeze from S. E.

(Signed) James K. Cogswell
Lieut.

From 8 to Midnight. Partially cloudy. Cool. Pleasant. Bright moonlight. Light breeze from S. and E.

(Signed) Clinton K. Curtis
Lieut.

(Signed) Asa Walker,
Lieut
Navigator.

Examined and found to be correct

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, St Helena

Hour.	Knots Fathoms.	WINDS.		BAROMETER.		TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
		Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.			
A.M													
1			SE	2		29.99	73	74	71	bc	Cum Nimb	2	S
2			"	2		29.97	73	74	71	"	"	3	"
3			"	2		29.94	73	74	71	"	"	5	"
4			"	2		29.95	73	74	71	"	"	5	"
5			"	1-2		29.97	73	74	71	"	"	5	"
6			"	2		29.99	73	74	72	"	"	5	"
7			SSE	0-1		30.01	73	74	73	"	"	5	"
8			"	1-2		30.03	73	74	73	"	"	7	"
9			S	"		30.04	74	76	73	"	"	6	"
10			"	"		30.04	76	77	73	"	"	4	"
11			"	"		30.04	76	77	74	"	"	2	"
Noon			"	"		30.03	77	78	75	"	"	3	"

Distance run by Log since preceding Noon

knots

fathoms.

Latitude by D. R. at Noon

o

'

"

Longitude by D. R. at Noon

o

'

"

Latitude by Observations at Noon ⊕

o

'

"

Longitude by Chronometer from Forenoon Observations ⊕

o

'

"

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊕ observed at Sunrise

o

"

"

Variation of the Compass by Azimuth ⊕ observed at

o

"

"

Water expended during the preceding 24 hours

300 gallons.

Water during the preceding 24 hours

"

Water remaining on hand fit for me at Noon

1400

"

Coal consumed during the preceding 24 hours

tons

250

lbs.

Coal remaining on hand at Noon

106

"

2002

"

P.M.

1			SE	1-2		30.03	77	78	75	bc	Cum Nimb	4	S
2			"	1-2		30.02	77	78	74	"	"	5	"
3			"	1-2		30.01	77	78	74	"	"	5	"
4			"	1-2		30.00	76	77	74	"	"	3	"
5			"	1-2		30.00	76	76	74	"	"	3	"
6			"	1-2		29.99	76	76	74	"	"	3	"
7			"	1-3		29.99	76	76	74	"	"	4	"
8			"	1-3		30.00	75	76	73	"	"	6	"
9			"	1-3		30.01	75	75	73	"	"	4	"
10			"	1-3		30.02	75	75	73	"	"	4	"
11			"	2-3		30.02	75	75	72	"	"	6	"
Mid.			"	2-3		30.02	74	74	72	"	"	6	"

Longitude by Chronometer from Afternoon Observations ⊕

o

'

"

Longitude by Chronometer Observations

]

o

'

"

Variation of the Compass by Amplitude

observed at Sunset

o

'

"

Variation of the Compass by

at

o

'

"

under the command of Commander Winfield Scott Schley, U. S. Navy.
Thursday January 17th, 1878.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear and pleasant. Light breeze from S. E. Bright Moonlight.
(Signed) [no signature]

From 4 to 8 A.M. Clear. Warm. Cum. Nimb. clouds. Light S. E. breeze. Received in Pay Dept.
158 lbs fresh beef and 130 lbs vegetables.
(Signed) Samuel C. Lemly
Ensign.

From 8 to Merid. Cloudy. Pleasant. Moderate breeze from S. and E. Cumulus clouds.
Barometer steady.
(Signed) Clinton K. Curtis
Lieut.

From Merid. to 4 P.M. Clear. Pleasant. Light S. E. breeze. Cum. Nimb. clouds.
(Signed) Samuel C. Lemly
Ensign.

From 4 to 8 P.M. Clear. Pleasant. Light breeze from S. and E. Cum. Nimb. clouds.
(Signed) Clinton K. Curtis
Lieut.

From 8 to Midnight. Clear. Pleasant. Bright moonlight. Light S. E. breeze, with puffs. Cum.
Nimb. clouds.
(Signed) Samuel C. Lemly
Ensign.

Examined and found to be correct

(Signed) Asa Walker,
Lieut
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, St Helena

Hour.	Knots Fathoms.	WINDS.		BAROMETER.		TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
		Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.			
A.M													
1			S	1-2		29.99	74	74	73	o	Cum Nimb	0	S
2			"	1-2		29.97	74	74	73	op	"	0	"
3			"	1-2		29.97	74	74	73	"	"	0	"
4			SSW	1-2		29.95	74	74	73	"	"	0	"
5			W	1		29.97	73	74	73	"	"	0	"
6			S	1		29.99	73	74	73	"	"	0	"
7			"	1		29.99	73	74	73	bc	"	1	"
8			"	2		29.98	74	75	73	"	"	1	"
9			SE	1		29.97	74	76	74	"	"	2	"
10			"	1-2		29.98	75	77	75	"	"	4	"
11			"	1-3		29.99	76	78	76	"	"	6	"
Noon			"	1-3		29.99	76	78	76	"	"	5	"

Distance run by Log since preceding Noon

knots fathoms.

Latitude by D. R. at Noon

o i "

Longitude by D. R. at Noon

o i "

Latitude by Observations at Noon ⊕

o i "

Longitude by Chronometer from Forenoon Observations ⊕

o i "

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊕ observed at Sunrise

o " "

Variation of the Compass by Azimuth ⊕ observed at

o " "

Water expended during the preceding 24 hours

300 gallons.

Water Received during the preceding 24 hours

1950 "

Water remaining on hand fit for me at Noon

2000 "

Coal consumed during the preceding 24 hours

tons 250 lbs.

Coal remaining on hand at Noon

133 " 1551 "

P.M.

1		S	2-4	29.97	76	79	76	bc	Cum Nimb	4	S
2		SSE	2-4	29.95	76	79	76	"	"	3	"
3		S	2-4	29.94	76	79	76	"	"	2	"
4		"	2-4	29.93	76	78	76	"	"	4	"
5		SE	2-4	29.94	75	76	74	"	"	4	"
6		"	2-4	29.94	74	75	73	"	"	4	"
7		"	2-4	29.96	74	74	73	"	"	5	"
8		"	2-4	29.97	76	74	73	"	"	3	"
9		S	2-4	29.96	74	74	72	"	"	1	"
10		"	2-4	29.97	74	73	72	o	"	0	"
11		SE	2-4	29.99	73	73	72	"	"	0	"
Mid.		S	2-4	29.99	73	73	73	bc	"	1	"

Longitude by Chronometer from Afternoon Observations ⊕

o i "

Longitude by Chronometer Observations]

o i "

Variation of the Compass by Amplitude observed at Sunset

o i "

Variation of the Compass by at

o i "

under the command of Commander Winfield Scott Schley, U. S. Navy.
Friday January 18th, 1878.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Cloudy, with occasional light showers. Wind light from S. and E.
Obscured moonlight. Barometer falling.

(Signed) Clinton K. Curtis
Lieut

From 4 to 8 A.M. Cloudy, with light passing showers. Light variable airs. Received onboard 158
lbs fresh beef and 130 lbs vegetables for crew.

(Signed) Charles B. T. Moore
Ensign.

From 8 to Merid. Cloudy. Warm. Light S. E. breeze. Cum. Nimb. Clouds. At 9, commenced
coaling. American Bark Emma L. Partridge, Stockon Me. Came in and anchored. Received in
Pay Dept. the following stores. 3000 lbs sugar, 250 lbs pickles and 1800 lbs of preserved beef,
in Navigators Dept. 1950 gals. water and 110 gals. oil. The following men are absent from the
ship without leave, Viz, James Brady (Mach) Andrew McGarvey (B Maker) Luther Baker (2s M)
James Hackett (O.S.2.C.) John Kallenback (O.S.2.C.) Thomas C. Peuty (O.S.2.C) Nicholas
Lynch (O.S.2.C.) Edward Moran (O.S.2.C.) Michael Leary (Lds E.F.) Frank Buckhardt (Lds E.F.)

(Signed) Samuel C. Lemly
Ensign.

From Merid. to 4 P.M. Cloudy. Pleasant. Moderate breeze from S. Engaged in coaling ship.
Received 26 2039/2240 tons of coal.

(Signed) Charles B. T. Moore
Ensign.

From 4 to 8 P.M. Cloudy. Cool. Pleasant. Light S. E. breeze, with gusts. Cum Nimb clouds.
James Brady (Mach), Michael Leary (Lds E.F.) and Frank Buckhardt (Lds E.F.) returned
onboard. An English Bark got underway and left the harbor.

(Signed) Samuel C. Lemly
Ensign.

From 8 to Midnight. Cloudy. Cool. Light breeze from S. with fresh gusts. Obscured moonlight.

(Signed) Charles B. T. Moore
Ensign.

(Signed) Asa Walker,
Lieut
Navigator.

Examined and found to be correct

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, St Helena

Hour.	Knots Fathoms.	WINDS.		BAROMETER.			TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
		Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.				
A.M														
1			SE	1-4		29.98	72	72	71	op	Cum Nimb	0	S	
2			"	1-4		29.98	72	72	70	bc	"	2	"	
3			"	1-4		29.97	72	72	70	"	"	7	"	
4			"	1-4		29.96	72	72	70	"	"	9	"	
5			"	2		29.97	72	72	71	"	"	5	"	
6			"	1-2		29.98	72	73	72	"	"	0	"	
7			"	1-2		29.99	72	73	72	op	"	0	"	
8			"	1-2		30.00	72	73	72	"	"	0	"	
9			SSE	2		29.99	72	74	72	o	"	2	"	
10			"	2		29.98	73	75	73	bc	"	3	"	
11			"	2-4		29.98	73	75	73	"	"	1	"	
Noon			"	2-4		29.99	74	74	74	"	"	2	"	

Distance run by Log since preceding Noon

knots fathoms.

Latitude by D. R. at Noon

° ' "

Longitude by D. R. at Noon

° ' "

Latitude by Observations at Noon ⊕

° ' "

Longitude by Chronometer from Forenoon Observations ⊕

° ' "

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊕ observed at Sunrise

° " "

Variation of the Compass by Azimuth ⊕ observed at

° " "

Water expended during the preceding 24 hours

500 gallons.

Water during the preceding 24 hours

"

Water remaining on hand fit for me at Noon

2300 "

Coal consumed during the preceding 24 hours

tons 250 lbs.

Coal remaining on hand at Noon

133 " 1301 "

P.M.

1		SSE	2	29.97	74	76	74	bc	Cum Nimb	3	S
2		SE	2-4	29.95	74	77	75	"	"	5	"
3		"	2-4	29.93	74	77	75	"	"	6	"
4		SSE	2-4	29.93	75	77	76	"	"	4	"
5		"	2-4	29.92	75	76	76	bcp	"	3	"
6		"	2	29.93	74	75	74	bc	"	4	"
7		"	2	29.94	73	74	74	"	"	5	"
8		"	2	29.95	73	74	73	"	"	3	"
9		SE	1-2	29.97	73	74	72	"	"	1	"
10		"	1-2	29.98	73	74	72	o	"	0	"
11		"	1-4	29.98	73	74	72	op	"	0	"
Mid.		"	1-4	29.97	73	74	72	"	"	0	"

Longitude by Chronometer from Afternoon Observations ⊕

° ' "

Longitude by Chronometer Observations]

° ' "

Variation of the Compass by Amplitude observed at Sunset

° ' "

Variation of the Compass by at

° ' "

under the command of Commander Winfield Scott Schley, U. S. Navy.
Saturday January 19th, 1878.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Cloudy, with passing showers first part of watch, clear latter part.
Light breeze, with gusts, from S. E. A Bark with head booms carried away came in.

(Signed) Samuel C. Lemly
Ensign.

From 4 to 8 A.M. Cloudy. Pleasant. Light breeze from S. E. Light passing showers.

(Signed) James K. Cogswell
Lieut.

From 8 to Merid. Cloudy. Pleasant. Light breeze from S.S.E. with fresh gusts. Received in Pay
Dept. 1 Box of Soap, 49 bass.

(Signed) Charles B. T. Moore
Lieut.

From Merid. to 4 P.M. Cloudy. Pleasant. Light breeze from S. and E, with fresh gusts.

(Signed) James K. Cogswell
Lieut.

From 4 to 8 P.M. Cloudy. Pleasant. Light breeze from S. and E. Light passing showers first
hour.

(Signed) Charles B. T. Moore
Ensign.

From 8 to Midnight. Cloudy. Cool. Light breeze from S. and E. with fresh gusts. Passing
showers latter part of watch. Bright moonlight.

(Signed) James K. Cogswell
Lieut.

(Signed) Asa Walker,
Lieut
Navigator.

Examined and found to be correct

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, St Helena

Hour.	Knots Fathoms.	WINDS.		BAROMETER.			TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
		Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.				
A.M														
1			SE	2		29.97	73	74	72	bc	Cum Nimb	3	S	
2			"	2		29.97	73	74	72	"	"	1	"	
3			"	2		29.96	73	74	72	"	"	4	"	
4			ESE	2		29.95	73	74	72	o	"	0	"	
5			S	2		29.97	73	73	71	"	"	0	"	
6			"	2		29.99	73	73	71	"	"	0	"	
7			"	1-2		30.01	73	73	71	op	"	0	"	
8			"	1-2		30.02	73	73	71	"	"	0	"	
9			SSE	1-3		30.02	73	73	72	"	"	0	"	
10			"	1-3		30.01	73	74	73	"	"	0	"	
11			"	1-4		30.01	73	75	73	op	"	0	"	
Noon			"	1-3		30.00	74	76	74	bc	"	2	"	

Distance run by Log since preceding Noon

knots fathoms.

Latitude by D. R. at Noon

° ' "

Longitude by D. R. at Noon

° ' "

Latitude by Observations at Noon ⊕

° ' "

Longitude by Chronometer from Forenoon Observations ⊕

° ' "

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊕ observed at Sunrise

° " "

Variation of the Compass by Azimuth ⊕ observed at

° " "

Water expended during the preceding 24 hours

250 gallons.

Water during the preceding 24 hours

"

Water remaining on hand fit for me at Noon

2100 "

Coal consumed during the preceding 24 hours

tons 250 lbs.

Coal remaining on hand at Noon

133 " 1051 "

P.M.

1		SSE	1-2	29.99	76	77	75	bc	Cum Nimb	2	S	
2		"	1-2	29.98	76	78	75	"	"	4	"	
3		"	1-3	29.97	75	78	75	"	"	4	"	
4		"	1-3	29.96	75	78	75	"	"	4	"	
5		"	2-4	29.97	75	76	73	"	"	5	"	
6		"	2-4	29.97	74	75	72	"	"	5	"	
7		"	2-4	29.97	74	75	72	"	"	6	"	
8		"	2-4	29.97	74	75	72	"	"	6	"	
9		SE	1-2	29.98	74	74	72	"	"	7	"	
10		"	1-2	29.99	74	74	72	"	"	7	"	
11		"	1-2	29.99	74	74	72	"	"	4	"	
Mid.		"	1-3	29.98	74	74	72	"	"	4	"	

Longitude by Chronometer from Afternoon Observations ⊕

° ' "

Longitude by Chronometer Observations]

° ' "

Variation of the Compass by Amplitude observed at Sunset

° ' "

Variation of the Compass by at

° ' "

under the command of Commander Winfield Scott Schley, U. S. Navy.
Sunday January 20th, 1878.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Cloudy. Cool. Pleasant. Light breeze from S. and E. Moonlight.

(Signed) Charles B. T. Moore
Ensign.

From 4 to 8 A.M. Cloudy. Passing showers last two hours. Light breeze from S. Barometer steady.

(Signed) Clinton K. Curtis
Lieut.

From 8 to Merid. Cloudy. Pleasant. Passing showers. Moderate breeze from S. and E. At 9.40 inspected at quarters. Afterwards prayers were read by Commander.

(Signed) James K. Cogswell
Lieut.

From Merid. to 4 P.M. Cloudy. Pleasant. Wind moderate from S. and E. A Bark and a Brigantine came in and anchored during watch. Hoisted to dinghy's davits a boat belonging to the British Bark "Dartmouth" standing off and on, having been stove in lowering, and being unable to reach the shore or regain the ship.

(Signed) Clinton K. Curtis
Lieut.

From 4 to 8 P.M. Cloudy and pleasant. Moderate breeze from S.E. Riding to wind.

(Signed) James K. Curtis
Lieut.

From 8 to Midnight. Cloudy. Cool. Light breeze from S. and E. with strong gusts last hour. Barometer steady.

(Signed) Clinton K. Curtis.

(Signed) Asa Walker,
Lieut
Navigator.

Examined and found to be correct

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, St Helena

Hour.	Knots Fathoms.	WINDS.		BAROMETER.		TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
		Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.			
A.M													
1			SE	1-2		29.99	72	72	70	bc	Cum Nimb	1	L
2			"	1-2		29.98	72	72	70	"	"	1	"
3			"	1-2		29.98	72	73	70	"	"	1	"
4			"	1-2		29.97	72	73	71	"	"	1	"
5			"	1-3		29.96	72	73	71	op	"	0	"
6			"	1-3		29.97	72	73	71	o	"	0	"
7			"	1-3		29.98	72	73	71	bcp	"	0	"
8			"	1-3		29.99	72	73	72	op	"	0	"
9			"	1-3		30.00	73	73	72	bcp	"	1	"
10			"	1-3		30.01	73	73	72	"	"	1	"
11			"	1-3		30.00	74	74	73	"	"	1	"
Noon			"	1-3		29.99	74	75	73	bc	"	1	"

Distance run by Log since preceding Noon

knots

fathoms.

Latitude by D. R. at Noon

o

i

"

Longitude by D. R. at Noon

o

i

"

Latitude by Observations at Noon ⊕

o

i

"

Longitude by Chronometer from Forenoon Observations ⊕

o

i

"

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊕ observed at Sunrise

o

"

"

Variation of the Compass by Azimuth ⊕ observed at

o

"

"

Water expended during the preceding 24 hours

250 gallons.

Water Received during the preceding 24 hours

1400 "

Water remaining on hand fit for me at Noon

2900 "

Coal consumed during the preceding 24 hours

tons 250 lbs.

Coal remaining on hand at Noon

133 " 901 "

P.M.

1		SE	1-3		29.98	74	73	73	bc	Cum Nimb	3	L
2		"	1-3		29.97	74	74	74	"	"	4	"
3		"	2-4		29.96	74	74	74	"	"	6	"
4		"	2-4		29.95	75	75	75	"	"	6	"
5		"	1-2		29.95	75	75	75	"	"	4	"
6		"	1-2		29.95	75	74	74	"	"	2	"
7		"	1-2		29.95	75	73	73	bcp	"	2	"
8		"	1-2		29.95	75	72	72	op	"	0	"
9		"	1-2		29.95	74	72	72	"	"	0	"
10		"	1-2		29.97	74	72	72	bcp	"	1	"
11		"	1-3		29.99	73	74	72	"	"		"
Mid.		"	1-3		29.98	73	74	72	"	"		"

Longitude by Chronometer from Afternoon Observations ⊕

o

i

"

Longitude by Chronometer Observations

o

i

"

Variation of the Compass by Amplitude observed at Sunset

o

i

"

Variation of the Compass by

at

o

i

"

under the command of Commander Winfield Scott Schley, U. S. Navy.
Monday January 21st, 1878.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Weather cloudy. Moderate breeze from S. Squally.

(Signed) James K. Cogswell
Lieut.

From 4 to 8 A.M. Overcast. Passing showers. Light breeze, with gusts, from S. E. Cum. Nimb. clouds.

(Signed) Samuel C. Lemly
Ensign.

From 8 to Merid. Cloudy. Passing showers first three hours. Wind moderate, with gusts from S. and E. At 9.15 exercised at general quarters.

(Signed) Clinton K. Curtis
Lieut.

From Merid. to 4 P.M. Cloudy. Moderate breeze, with gusts, from S. E. Cum. Nimb. clouds. Pleasant. A large English Bark and a German Brigantine got underway and stood out to sea. Bark "Edwin Fox" came and anchored.

(Signed) Samuel C. Lemly
Ensign.

From 4 to 8 P.M. Cloudy. Passing showers last two hours. Wind light from S. E. At sundown sent down top gallant yards. Bent light sails and made preparations for sea. At 7.30 Royal Mail Steamer "Asiatic" came in and anchored.

(Signed) Clinton K. Curtis
Lieut.

From 8 to Midnight. Cloudy. Passing showers. Wind light, with gusts, from S. E. Barometer steady.

(Signed) W. G. Hannum
Midshipman.

(Signed) Asa Walker,
Lieut
Navigator.

Examined and found to be correct

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, St Helena and At Sea

Hour.	Knots Fathoms.	Courses steered.	WINDS.		Leeway.	BAROMETER.		TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
			Direction.	Force.		Height in inches.	Ther. alt'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A.M															
1			SE	1-3		29.97	72	74	71		bc	Cum Nimb	7	S	
2			"	1-3		29.96	72	73	71		"	"	6	"	
3			"	1-3		29.95	72	73	71		"	"	6	"	
4			"	1-3		29.95	72	73	71		"	"	7	"	
5			"	2-4		29.96	71	72	71		"	"	2	"	
6			"	2-4		29.98	71	72	71		"	"	6	"	
7			"	2-4		29.98	72	73	72		"	"	7	"	
8			"	2-4		29.99	72	73	72		op	"	0	"	
9	Standing out of Jamestown harbor, St Helena		"	2-4		30.00	73	74	73		"	"	0	L	
10		"	2-4		30.00	73	76	75		bc	"	6	"		
11	2 0	W 1/4 N	"	2-4		30.00	73	76	76	75	"	"	3	"	All plain sail
Noon	5 4	"	"	2-4		29.98	73	73	71	75	"	"	4	"	And M. try sail.

Distance run by Log since preceding Noon	7 knots	4 fathoms.
Latitude by D. R. at Noon	15 °	58 ' 00 " S.
Longitude by D. R. at Noon	5 °	57 ' 00 " W.
Latitude by Observations at Noon ⊕	°	' "
Longitude by Chronometer from Forenoon Observations ⊕	°	' "
Current during the time knots fms. per hour, setting to the		
Variation of the Compass by Amplitude ⊕ observed at Sunrise	°	" "
Variation of the Compass by Azimuth ⊕ observed at	°	" "
Water expended during the preceding 24 hours		250 gallons.
Water during the preceding 24 hours		"
Water remaining on hand fit for me at Noon		2700 "
Coal consumed during the preceding 24 hours	2 tons	2110 lbs.
Coal remaining on hand at Noon	130 "	931 "

P.M.															
1	5 2	W 1/4 N	SE	3		29.97	73	74	73	75	bc	Cir Cum	4	L	
2	5 0		"	3		29.96	73	74	73	75	"	"	3	"	
3	5 2		"	3		29.95	73	74	73	75	"	"	6	"	
4	3 0		SE by E	3		29.95	73	75	73	75	"	"	7	"	
5		Sounding	"	3		29.94	73	75	73	75	"	"	9	"	All plain sail
6	5 4	W 1/4 N	"	3		29.94	73	75	72	75	"	"	2	"	and M. try sail.
7	5 4		"	3		29.96	73	74	72	75	"	Cum	6	"	"
8	5 4	W by N	"	3		29.99	73	74	72	75	"	"	4	"	"
9	5 6		"	2-4		30.02	73	74	72	75	bcp	Cum Nimb	5	"	All plain sail
10	6 4		"	4		30.02	73	73	72	75	bc	"	3	"	And M.F.M.S.S.
11	6 6		"	4		30.02	73	73	72	75	"	"	3	"	"
Mid.	7 0		"	4		30.02	73	73	72	75	"	"	3	"	"

Longitude by Chronometer from Afternoon Observations ⊕	°	' "
Longitude by Chronometer Observations]	°	' "
Variation of the Compass by Amplitude observed at Sunset	°	' "
Variation of the Compass by at	°	' "

under the command of Commander Winfield Scott Schley, U. S. Navy.
Tuesday January 22nd, 1878.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear. Pleasant. Light breeze, with gusts, from S. E. Bright moonlight.
At 3, Royal Mail Steamer "Asiatic" left the harbor.

(Signed) Clinton K. Curtis
Lieut.

From 4 to 8 A.M. Cloudy. Cool. Passing showers last two hours. Light breeze, with fresh gusts from S. E. Engaged in preparing for sea. At 5 started fires in four boilers.

(Signed) Charles B. T. Moore
Ensign.

From 8 to Merid. Cloudy. Warm. Moderate S. E. breeze. At 9, got underway. Draught forward 14 feet. Amidships 15 feet. Aft 16 feet. Governor of St Helena came on board. At 9.42 stopped to get sounding. Got cast in 1223 fathoms, rocky bottom. At 10 crossed light yards. At 10.40 Governor's party left the ship. At 10.40 took departure. S. W. point bore (pc) S. 1/2 E. Sugar Loaf E. S. E. 1/2 E. and stood on course W. 1/4 N. At 10.50 made sail to royals. Set fore topmast staysail. By order of the Commander, James Brown (C.F.C.) was released and placed a prisoner at large. At 11.15 stopped steaming, uncoupled and banked fires. At 11.20 braced up and set all fore and aft sail. Fires banked in four boilers. Steam pressure 25 lbs.

(Signed) Samuel C. Lemly
Ensign.

From Merid. to 4 P.M. Clear and pleasant, with moderate breeze from S. and E. Got up, bent and set M.T.M.S.S. At 2.30 spread fires and at 3.30 called all hands shorten and furl sail for sounding.

(Signed) Charles B. T. Moore
Ensign.

From 4 to 6 P.M. Cloudy and pleasant. Moderate breeze from S. and E. At 4.30 got soundings in 1906 fathoms water, bottom coral sand. At 5.10 made sail and stood on the course W 1/4 N. Banked fires in four boilers. Steam pressure 55 lbs.

(Signed) James K. Cogswell
Lieut.

From 6 to 8 P.M. Partially cloudy. Pleasant. Wind moderate from S. and E. At 7, changed course to W. by N. Fires banked in four boilers. Steam pressure 25 lbs.

(Signed) Clinton K. Curtis
Lieut.

From 8 to Midnight. Cloudy. Passing showers first hour. Moderate breeze from S. and E. Cum. Nimb. clouds. Obscured moonlight. At 9.40 Moon rose. Fires banked in four boilers. Steam pressure 25 lbs.

(Signed) Samuel C. Lemly
Ensign.

(Signed) Asa Walker,
Lieut
Navigator.

Examined and found to be correct

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, At Sea

Hour.	Knots Fathoms.		WINDS.			BAROMETER.			TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
			Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. at't'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A.M.																
1	6	6	W by N	SE by E	4		29.99	73	72	70	74	bcp	Cir Cum	7	L	M.T.M.S.S. and
2	6	0	"	"	4		29.98	73	72	70	74	bc	"	8	"	all plain sail
3	6	0	"	SE	4		29.98	73	72	70	74	or	Cum Nimb	0	"	except M. Sail.
4	6	2	"	"	4		29.97	73	72	70	74	bcp	"	3	"	"
5	6	4	"	"	5		29.98	72	72	71	74	op	"	0	"	"
6	4	6	"	E by S	2		29.98	72	72	71	74	o	"	0	"	"
7	3	0	"	"	2		30.00	72	72	71	74	bc	"	2	"	"
8	7	0	"	SE	3		30.02	72	72	71	74	"	"	1	"	"
9	6	0	"	SE by E	3		30.04	73	74	71	74	"	"	1	"	"
10	5	4	"	"	3		30.04	73	75	72	74	"	"	1	"	All plain sail
11		Sounding	"	"	3		30.03	74	76	73	74	"	"	2	"	except M.T.M.S.S.
Noon	3	0	W by N	"	3		30.02	75	76	74	74	"	"	3	"	"

Distance run by Log since preceding Noon

121 knots

4 fathoms.

Latitude by D. R. at Noon

16 ° 31 ' 20 " S.

Longitude by D. R. at Noon

7 ° 58 ' 00 " W.

Latitude by Observations at Noon ⊕

16 ° 29 ' 00 " S.

Longitude by Chronometer from Forenoon Observations ⊕

8 ° 02 ' 00 " W.

Current during the time knots fms. per hour, setting to the

°

"

"

Variation of the Compass by Amplitude ⊕ observed at Sunrise

24 ° 35 " 00 " W.

Variation of the Compass by Azimuth ⊕ observed at 7.30 A.M.

Water expended during the preceding 24 hours

350 gallons.

Water

during the preceding 24 hours

"

Water remaining on hand fit for me at Noon

2400 "

Coal consumed during the preceding 24 hours

1 tons 1470 lbs.

Coal remaining on hand at Noon

128 " 1701 "

P.M.

1	5	6	W by N	SE by E	3	30.01	74	76	73	75	bc	Cum Nimb	7	S	M.T.M.S.S. Main
2	5	6	"	"	3	30.00	74	76	73	75	"	"	8	"	try sail and all
3	5	0	"	"	3	29.99	74	75	72	75	"	"	8	"	plain sail except
4	4	6	"	"	3	29.98	74	75	72	75	"	"	8	"	M. sail, F. T. M. S. S.
5	4	6	"	"	3	29.99	74	75	73	75	"	"	1	"	and F. jib.
6	4	4	"	"	3	29.99	74	75	73	75	"	"	2	"	"
7	5	0	"	"	3	30.02	73	75	73	73	"	"	0	"	"
8	5	0	"	"	3	30.02	73	74	73	73	"	"	0	"	"
9	6	0	"	"	3	30.04	73	74	72	73	"	"	0	"	"
10	6	0	"	"	3	30.04	73	74	72	75	"	"	0	"	"
11	6	2	"	"	3	30.03	73	74	72	75	"	"	0	"	"
Mid.	6	0	"	"	3	30.03	73	74	72	75	bc	"	1	"	"

Longitude by Chronometer from Afternoon Observations ⊕

°

'

"

Longitude by Chronometer Observations

]

°

'

"

Variation of the Compass by Amplitude

observed at Sunset

°

'

"

Variation of the Compass by

at

°

'

"

under the command of Commander Winfield Scott Schley, U. S. Navy.
Wednesday January 23rd, 1878.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear first part, cloudy latter part of watch. Passing showers.
Moonlight. Moderate breeze from S. and E. Fires banked in four boilers.

(Signed) Charles B. T. Moore
Ensign.

From 4 to 8 A.M. Cloudy and pleasant. Moderate breeze from S. and E. Passing showers. Long
swell from S. E. Fires banked in four boilers.

(Signed) James K. Cogswell
Lieut.

From 8 to Merid. Partially cloudy. Pleasant. Wind moderate from S. and E. At 9.15 inspected at
quarters. Spread fires, and at 9.50 coupled engines. At 9.55 called all hands "shorten and furl
sail", took in and furled all sail, except spanker and gaff topsail. At 10.11 got sounding in 2254
fathoms water, bottom coral sand. At 11.27 called all hands make sail, made all plain sail to
royals and stood off on course. Banked fires.

(Signed) Clinton K. Curtis
Lieut.

From Merid. to 4 P.M. Clear. Warm. Moderate breeze from S. E. Cum. Nimb. clouds. At 1.15
hauled down fore topmast staysail. At 2.30 set main topmast staysail. Fires banked in four
boilers. Steam pressure 25 lbs.

(Signed) Samuel C. Lemly
Ensign.

From 4 to 6 P.M. Cloudy and pleasant. Moderate breeze fro S. E. by E. Fires banked in four
boilers. Steam pressure 25 lbs.

(Signed) Charles B. T. Moore
Ensign.

From 6 to 8 P.M. Overcast and cool. Moderate breeze from S. E. by E. At 6.30 mustered at
quarters. Fires banked in four boilers. Steam pressure 25 lbs.

(Signed) James K. Cogswell
Lieut.

From 8 to Midnight. Cloudy. Cool. Moderate breeze from S. and E. Fires banked in four boilers.
Steam pressure 25 lbs.

(Signed) Clinton K. Curtis
Lieut.

(Signed) Asa Walker,
Lieut
Navigator.

Examined and found to be correct

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, At Sea

Hour.	Knots Fathoms.		Courses steered.	WINDS.			BAROMETER.			TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
				Direction.	Force.	Leeway.	Height in inches.	Ther. at't'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.						
A.M																	
1	5	6	W by N	SE by E	3		30.01	73	73	72	74	bc	Cum Nimb	3	L	M.T.M.S.S. and	
2	5	0	"	SE	2-3		29.99	73	73	72	74	"	"	3	"	all plain sail	
3	4	6	"	"	2-3		30.00	73	73	72	74	"	"	3	"	except M. sail, F. jib	
4	5	0	"	"	3		30.00	73	73	72	74	"	"	2	"	And F. T. M. S. S.	
5	4	2	"	"	3		30.02	73	73	72	74	op	"	0	"	"	
6	5	0	"	"	4		30.03	73	73	72	74	bcp	"	1	"	With spanker and	
7	3	0	"	"	4		30.05	73	74	73	75	op	"	0	"	gaff topsail.	
8	Sounding			"	3		30.06	73	75	74	75	bc	"	2	"	"	
9	4	0	W by N	"	3		30.07	73	75	73	75	"	"	2	"	"	
10	5	6	"	"	3		30.07	73	76	74	75	"	"	1	"	"	
11	5	4	"	"	3		30.06	74	76	74	76	"	Cir Cum	7	"	"	
Noon	6	0	"	"	3		30.05	74	76	74	76	"	"	8	"	"	

Distance run by Log since preceding Noon

119 knots

0 fathoms.

Latitude by D. R. at Noon

16 °

58 '

00 "

" S.

Longitude by D. R. at Noon

10 °

03 '

00 "

" W.

Latitude by Observations at Noon ⊕

16 °

57 '

30 "

" S.

Longitude by Chronometer from Forenoon Observations ⊕

10 °

14 '

45 "

" W.

Current during the time knots 4 fms. per hour, setting to the W.

Variation of the Compass by Amplitude ⊕ observed at Sunrise

°

"

"

Variation of the Compass by Azimuth ⊕ observed at 7.30 A.M.

24 °

15 "

00 "

" W

Water expended during the preceding 24 hours

300 gallons.

Water

during the preceding 24 hours

"

Water remaining on hand fit for me at Noon

2100 "

Coal consumed during the preceding 24 hours

1

tons

1970 lbs.

Coal remaining on hand at Noon

126

"

1971

"

P.M.

1	5	0	W by N	SE by E	2-3		30.05	75	77	75	76	bc	Cum	7	L	All plain sail
2	5	0	"	"	2-3		30.02	74	76	74	76	"	"	5	"	except M.T.M.S.S.
3	5	2	"	"	2-3		30.02	74	76	74	76	"	"	3	"	"
4	5	0	"	"	2-3		30.02	73	75	73	76	"	"	6	"	"
5	4	6	"	"	3		30.02	73	75	73	76	"	Cir Cum	6	"	"
6	5	4	"	"	3-5		30.03	73	74	72	76	bcp	Cum Nimb	6	"	"
7	5	2	"	"	4		30.05	73	74	72	76	bc	"	5	"	With M. T. M. S. S.
8	6	4	"	"	4		30.05	74	74	72	76	"	"	4	"	"
9	6	6	"	SE	3-4		30.07	74	74	73	76	"	"	7	"	"
10	6	0	"	"	3-4		30.09	74	74	73	76	"	"	2	"	"
11	6	4	"	"	4-5		30.08	74	74	73	75	"	"	1	"	"
Mid.	7	0	"	"	5		30.06	74	74	73	75	"	"	5	"	"

Longitude by Chronometer from Afternoon Observations ⊕

°

'

"

Longitude by Chronometer Observations

]

°

'

"

Variation of the Compass by Amplitude

observed at Sunset

°

'

"

Variation of the Compass by

at

°

'

"

under the command of Commander Winfield Scott Schley, U. S. Navy.
Thursday January 24th, 1878.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Cloudy. Cool. Pleasant. Light S. E. breeze. Cir. Cum. clouds.
Obscured moonlight. Fires banked in four boilers. Steam pressure 15 lbs.

(Signed) Samuel C. Lemly
Ensign.

From 4 to 8 A.M. Cloudy. Cool. Passing showers. Moderate breeze from S. E. At 4.40 took in
Main trysail. At 6.45 took in and furled all sail. At 6.55 commenced sounding. At 7.24 got bottom
at 2333 fathoms water, bottom gray sand. Fires in four boilers.

(Signed) Charles B. T. Moore
Ensign.

From 8 to Merid. Cloudy and pleasant first part, clear latter part of watch. Moderate breeze from
S. E. At 8.30 made all plain sail and stood on course. At 9.30 inspected at quarters. Exercised
Companies A. and B. at single sticks. Banked fires in four boilers. Steam pressure 25 lbs.

(Signed) James K. Cogswell
Lieut.

From Merid. to 4 P.M. Partially cloudy. Pleasant. Moderate breeze from S. and E. Fires banked
in four boilers. Steam pressure 25 lbs. Distilling.

(Signed) Clinton K. Curtis
Lieut.

From 4 to 6 P.M. Clear. Pleasant. Moderate S. E. breeze. Cir. Cum. Nimb. clouds. Rain squalls
last hour. At 5.45 hauled down M.T.M.S.S. Fires banked in four boilers. Steam pressure 25 lbs.
Distilling.

(Signed) Samuel C. Lemly
Ensign.

From 6 to 8 P.M. Cloudy. Pleasant. Moderate breeze fro S. E. by E. At 6.45 set M. T. M. S. S.
At present mustered at quarters. Fires banked in four Steam pressure 25 lbs. Distilling.

(Signed) Charles B. T. Moore
Ensign.

From 8 to Midnight. Cloudy and pleasant. Moderate breeze from S. E. Passing shower. Long
swell from S. E. Moon rose at 10.30. Fires banked in four boilers. Steam pressure 25 lbs.
Distilling.

(Signed) James K. Cogswell
Lieut.

(Signed) Asa Walker,
Lieut
Navigator.

Examined and found to be correct

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, At Sea

Hour.	Knots		Fathoms.	WINDS.			BAROMETER.		TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
				Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.					
A.M																
1	7	4	W by N	SE by E	3		30.04	74	75	74	75	bc	Cum Nimb	1	L	All plain sail
2	3	2	"	"	3		30.02	73	75	74	75	"	"	1	"	"
3			Sounding	"	3		30.00	73	74	73	75	"	"	1	"	"
4	4	4	W by N	"	3		30.00	73	75	72	75	"	"	1	"	"
5	5	2	"	"	3		30.04	73	74	72	75	"	"	1	"	"
6	5	2	"	"	4		30.08	73	74	73	75	bcq	"	1	"	"
7	4	4	"	"	2-3		30.09	73	74	74	75	bc	"	3	"	"
8	3	6	"	ESE	2-3		30.10	74	75	74	75	"	"	2	"	"
9	4	0	"	"	3		30.10	74	76	74	75	"	"	4	"	Except F. F. M. S. S.
10	3	4	"	"	3		30.10	75	76	74	75	"	"	5	"	"
11	3	4	"	"	3		30.09	75	76	74	75	"	"	3	"	"
Noon	3	6	"	"	4		30.08	75	78	76	75	"	"	9	"	"

Distance run by Log since preceding Noon

117 knots

2 fathoms.

Latitude by D. R. at Noon

17 ° 25 ' 54 " S.

Longitude by D. R. at Noon

12 ° 13 ' 45 " W.

Latitude by Observations at Noon ⊕

17 ° 23 ' 42 " S.

Longitude by Chronometer from Forenoon Observations ⊕

12 ° 24 ' 30 " W.

Current during the time knots 4 fms. per hour, setting to the W. by S.

Variation of the Compass by Amplitude ⊕ observed at Sunrise

° " "

Variation of the Compass by Azimuth ⊕ observed at 8 A.M.

24 ° 05 " 00 " W.

Water expended during the preceding 24 hours

300 gallons.

Water Condensed during the preceding 24 hours

500 "

Water remaining on hand fit for me at Noon

2000 "

Coal consumed during the preceding 24 hours

3 tons 330 lbs.

Coal remaining on hand at Noon

123 " 1641 "

P.M.

1	3	4	W by N	SE by E	3		30.06	74	76	76	75	bc	Cir Cum	7	L	All plain sail
2	4	0	"	"	3		30.04	74	76	75	75	"	"	9	"	except M. sail
3	4	6	"	SE	3		30.04	74	76	74	76	bcp	Cum Nimb	2	"	and F.T.M.S.S.
4	5	0	"	"	3		30.03	75	76	74	76	bc	"	7	"	"
5	5	0	"	"	3		30.04	75	76	74	76	"	"	5	"	"
6	5	4	"	"	3		30.05	75	76	74	76	"	"	3	"	"
7	6	0	"	"	4		30.06	75	76	74	76	"	"	4	"	"
8	6	4	"	"	4		30.07	75	76	74	76	"	"	7	"	"
9	7	0	"	"	4		30.06	75	75	73	76	"	"	1	"	"
10	6	6	"	"	4		30.08	75	75	73	76	"	"	0	"	"
11	4	4	"	SE by E	4		30.08	75	75	73	76	"	"	0	"	"
Mid.			Sounding	"	4		30.09	75	75	73	76	op	"	0	"	"

Longitude by Chronometer from Afternoon Observations ⊕

° ' "

Longitude by Chronometer Observations

° ' "

Variation of the Compass by Amplitude

observed at Sunset

° ' "

Variation of the Compass by

at

° ' "

under the command of Commander Winfield Scott Schley, U. S. Navy.
Friday January 25th, 1878.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Cloudy. Cool. Moderate breeze from S. and E. At 1.35 took in and furlled sail and started steaming. At 1.52 got sounding in 1969 fathoms water, bottom coral sand. At 3.17 made sail to royals and banked fires. Steam pressure 50 lbs.

(Signed) Clinton K. Curtis
Lieut.

From 4 to 8 A.M. Cloudy. Pleasant. Light E.S.E. breeze. At 6, squared away and took in spanker, gaff topsail, M. try sail and M.T.M.S.S. Fires banked in four boilers. Steam pressure 25 lbs. Distilling.

(Signed) Samuel C. Lemly
Ensign.

From 8 to Merid. Clear and pleasant. Passing showers third hour. Light breeze fro E.S.E. At 9, set F. jib, M. T. M. S. S. M. try sail and spanker. At 10, took in M. T. M. S. S. At 10.40 took in M. try sail. At 9.15 exercised at fire quarters. Times. First stream 30 s. Engineers steam 45 s. Third stream 1 m 30 s. Secured. Powder and Navigators Div. 55 s. 2nd Div. 1 m 15 s. 1st Div 1 m 20 s. Engineers Div. 1 m 55 s. Special Board of Survey condemned 6 Bbls Pork, 2 Bbls Beef and 400 lbs Bread. Threw overboard beef and pork. 23 bags of bread to be turned into store. Fires banked in four boilers. Steam pressure 25 lbs. Distilling.

(Signed) Charles B. T. Moore
Ensign.

From Merid. to 4 P.M. Cloudy and pleasant. Moderate breeze from S. and E. Passing showers. Exercised at torpedo drill. Fires banked in four boilers. Steam pressure 25 lbs. Distilling.

(Signed) James K. Cogswell
Lieut.

From 4 to 6 P.M. Partially clouds. Pleasant. Moderate breeze from S. and E. Fires banked in four boilers. Steam pressure 25 lbs. Distilling.

(Signed) Clinton K. Curtis
Lieut.

From 6 to 8 P.M. Cloudy. Pleasant. Moderate S. E. breeze. Cum. Nimb. clouds. Stopped distilling at 6.30. Fires banked in four boilers. Steam pressure 25 lbs.

(Signed) Samuel C. Lemly
Ensign.

From 8 to Midnight. Cloudy and pleasant first part. Passing showers last hour. Moderate breeze from S. E. At 10.30 took in and furlled light sails and foresail. At 10.45 took in and furlled topsails. At 11.20 commenced sounding. At 11.36 got bottom at 1697 fathoms, bottom coral sand and mud. Fires banked in four boilers.

(Signed) Charles B. T. Moore
Ensign.

(Signed) Asa Walker,
Lieut
Navigator.

Examined and found to be correct

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, At Sea

Hour.		Knots		Fathoms.		WINDS.		COURSES.		DIRECTION.		FORCE.		LEEWAY.		BAROMETER.		TEMPERATURE.		STATE OF THE WEATHER BY SYMBOLS.		FORMS OF CLOUDS, BY SYMBOLS.		PROP. OF CLEAR SKY, IN 10THS.		STATE OF THE SEA.		RECORD OF THE SAIL THE VESSEL IS UNDER AT END OF WATCH.				
A.M.																																
1	3	4	W by N	SE	4-5		30.07	74	75	74	76	bc	Cum Nimb	7	L																	
2	7	6	"	SE by E	5		30.05	74	75	72	76	"	"	6	"																	
3	7	4	"	"	5		30.03	74	75	72	76	"	"	2	"																	
4	7	2	"	SE	5		30.03	74	75	72	76	"	"	2	"																	
5	7	0	"	"	3-4		30.03	74	75	72	76	"	"	1	"	All plain sail																
6	6	4	"	"	3-4		30.06	74	76	72	76	"	"	1	"	except M. sail																
7	7	0	"	"	3-4		30.10	75	76	74	76	"	"	0	"	with M. T. M. S. S.																
8	7	4	"	"	3-4		30.09	75	76	74	76	"	"	0	"	and M. try sail.																
9	7	4	"	"	4		30.08	76	77	73	76	bc	Cir Cum	8	"	"																
10	6	0	"	"	3		30.09	76	78	74	76	"	"	7	"	"																
11	6	0	"	"	3		30.07	77	78	76	76	"	"	5	"	Except F. jib and																
Noon	6	2	"	"	3		30.05	30.05	78	81	78	76	"	7	"																	
Distance run by Log since preceding Noon												139 knots				2 fathoms.																
Latitude by D. R. at Noon												17	°	57	'	12	"	S.														
Longitude by D. R. at Noon												14	°	45	'	00	"	W.														
Latitude by Observations at Noon ⊕												17	°	52	'	30	"	S.														
Longitude by Chronometer from Forenoon Observations ⊕												14	°	53	'	15	"	W.														
Current during the time												knots 3		fms. per hour, setting to the		W. 28° N.																
Variation of the Compass by Amplitude ⊕ observed at Sunrise												°		"		"																
Variation of the Compass by Azimuth ⊕ observed at 8 A.M.												24	°	30	"	00	"	W.														
Water expended during the preceding 24 hours												300 gallons.																				
Water Condensed during the preceding 24 hours												500 "																				
Water remaining on hand fit for me at Noon												2200 "																				
Coal consumed during the preceding 24 hours												2	tons	830	lbs.																	
Coal remaining on hand at Noon												121	"	811	"																	
P.M.																																
1	5	4	W by N	SE by E	4		30.04	78	82	79	76	Cir Cum	bc	4	L	All plain sail																
2	5	4	"	"	4		30.01	79	76	77	76	"	"	9	"	except M. sail and																
3	6	0	"	"	4		29.99	79	76	77	76	"	"	9	"	F.T.M.S.S.																
4	3	0	"	"	3		29.99	79	77	77	76	Cum	"	9	"	"																
5	1	0	"	"	3		29.99	78	76	76	77	"	"	9	"	"																
6	5	0	"	"	3		30.00	78	76	75	77	"	"	8	"	"																
7	5	4	"	SE	3		30.04	77	75	75	77	"	"	6	"	"																
8	5	4	"	"	3		30.05	77	75	75	77	"	"	4	"	"																
9	6	4	"	"	4		30.08	76	76	74	77	"	"	7	"	"																
10	6	6	"	"	4		30.08	76	76	74	77	Cum Nimb	"	4	"	"																
11	6	6	"	"	4		30.07	76	76	74	77	"	"	5	"	"																
Mid.	7	0	"	"	4		30.06	76	76	74	77	Cir Cum	"	6	"	Except F. jib.																
Longitude by Chronometer from Afternoon Observations ⊕												°		'		"																
Longitude by Chronometer Observations												°		'		"																
Variation of the Compass by Amplitude												observed at Sunset				°		'		"												
Variation of the Compass by												at				°		'		"												

under the command of Commander Winfield Scott Schley, U. S. Navy.
Saturday January 26th, 1878.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Cloudy and pleasant. Fresh breeze from S. and E. Moonlight. At 2.30 made sail and stood on course. Banked fires in four boilers. Steam pressure 25 lbs.

(Signed) James K. Cogswell
Lieut.

From 4 to 8 A.M. Cloudy. Pleasant. Moderate breeze from S. E. Barometer rising. Fires banked in four boilers. Steam pressure.

(Signed) Clinton K. Curtis.

From 8 to Merid. Clear. Warm. Fresh S. E. breeze. Cir.Cum. clouds. At 8.45 hauled down M.T.M.S.S. and F. jib. At 11.10 took in M. trysail. Fires banked in four boilers. Steam pressure 25 lbs.

(Signed) Samuel C. Lemly
Ensign.

From Merid. to 4 P.M. Clear. Warm. Moderate breeze fro S. E. by E. At 3.30 called all hands, shortened and furled sail. At 3.45 commenced sounding. Fires in four boilers. Steam pressure 50 lbs.

(Signed) Charles B. T. Moore
Ensign.

From 4 to 6 P.M. Clear and pleasant. Moderate breeze from S.E. by E. At 4.30 got cast in 1365 water, bottom fine sand and shells. Temp. at bottom 37°, at 650 fathoms 38°. 5. At 4.50 made all plain sail. Fires banked in four boilers. Steam pressure 25 lbs.

(Signed) James K. Cogswell
Lieut.

From 6 to 8 P.M. Pleasant. Moderate breeze from S. E. Fires banked in four boilers. Steam pressure 25 lbs.

(Signed) Clinton K. Curtis.

From 8 to Midnight. Partially cloudy. Pleasant. Fresh S.E. breeze. Cum. Nimb clouds. At 11.40 hauled down and stowed flying jib. Fires banked in four boilers. Steam pressure 25 lbs.

(Signed) Samuel C. Lemly
Ensign.

(Signed) Asa Walker,
Lieut
Navigator.

Examined and found to be correct

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, At Sea

Hour.	Knots	Fathoms.	Courses steered.	WINDS.		Leeway.	BAROMETER.		TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
				Direction.	Force.		Height in inches.	Ther. at'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A.M																
1	7	0	W by N	SE	4		30.05	75	76	75	77	bc	Cum Nimb	2	L	All plain sail
2	6	6	"	"	4		30.04	75	76	75	77	o	"	0	"	except F.T.M.S.S.
3	6	6	"	"	3		30.03	75	76	75	77	bc	"	2	"	and F. jib.
4	6	4	"	SE by E	4		30.03	75	77	75	77	"	"	2	"	"
5	5	6	"	"	3		30.03	76	77	75	76	"	"	7	"	"
6	5	4	"	"	3		30.05	76	77	75	76	"	"	6	"	"
7	5	6	"	"	3		30.06	76	77	75	76	"	"	7	"	"
8	4	6	"	E	3		30.06	76	78	76	76	"	"	8	"	"
9	4	0	"	S by E	2		30.05	77	79	77	76	"	Cum	7	"	All plain sail
10	2	0	"	"	2		30.05	78	79	78	78	"	"	7	"	except M. sail and
11			Sounding	"	2		30.05	79	79	80	78	"	"	8	"	Jib, with F.T.M.S.S.
Noon	3	4	W by N	"	2		30.05	80	79	81	78	"	"	5	"	"

Distance run by Log since preceding Noon	122 knots	2 fathoms.
Latitude by D. R. at Noon	18 °	22 ' 12 " S.
Longitude by D. R. at Noon	16 °	58 ' 00 " W.
Latitude by Observations at Noon ⊕	18 °	17 ' 00 " S.
Longitude by Chronometer from Forenoon Observations ⊕	17 °	02 ' 30 " W.
Current during the time knots 3 fms. per hour, setting to the N.N.W.		
Variation of the Compass by Amplitude ⊕ observed at Sunrise	°	" "
Variation of the Compass by Azimuth ⊕ observed at 8 A.M.	22 °	45 " 00 " W.
Water expended during the preceding 24 hours		300 gallons.
Water Condensed during the preceding 24 hours		150 "
Water remaining on hand fit for me at Noon		1900 "
Coal consumed during the preceding 24 hours	2 tons	2150 lbs.
Coal remaining on hand at Noon	118 "	901 "

P.M																
1	1	0	w by n	E by S	2		30.04	79	83	80	78	bc	Cir Cum	5	L	Main try sail and
	3	0	w 3/4 n													
2	3	6	"	SE	2		30.02	77	81	78	78	"	"	5	"	all plain sail
3	4	0	"	"	2		30.00	77	79	77	78	"	"	7	"	with M.T.M.S.S.
4	5	0	"	"	2		30.00	77	79	77	78	"	"	6	"	"
5	4	6	"	"	3		30.01	77	78	76	78	"	"	8	"	"
6	4	6	"	"	3		30.02	77	78	76	78	"	"	8	"	"
7	2	4	"	"	3		30.02	77	78	76	78	"	"	8	"	"
8	1	0	"	"	3		30.06	76	78	76	78	"	"	9	"	"
9	3	0	"	"	2		30.08	76	78	76	78	"	"	8	"	"
10	4	0	"	"	2		30.08	76	78	76	78	"	"	8	"	"
11	3	4	"	"	2		30.07	76	77	76	78	"	"	7	"	Except F. jib.
Mid.	3	6	"	"	2		30.05	76	77	76	78	"	"	3	"	"

Longitude by Chronometer from Afternoon Observations ⊕	°	'	"
Longitude by Chronometer Observations]	°	'	"
Variation of the Compass by Amplitude observed at Sunset	°	'	"
Variation of the Compass by at	°	'	"

under the command of Commander Winfield Scott Schley, U. S. Navy.
Sunday January 27th, 1878.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Cloudy. Cool. Pleasant. Moderate breeze from S.E. Obscured moonlight. At 3.35 hauled down M.F.M.S.S. Fires banked in four boilers. Steam pressure 25 lbs.

(Signed) Charles B. T. Moore
Ensign.

From 4 to 8 A.M. Clear and pleasant. Moderate breeze from S. and E. Long swell from S. E. Fires banked in four boilers. Steam pressure 25 lbs.

(Signed) James K. Cogswell
Lieut.

From 8 to Merid. Clear and pleasant. Light breeze from S. and E. At 8.30 spread fires and coupled propeller. At 9.30 took in and furled sail, and got sounding in 2048 fathoms water, rocky bottom. At 11.10 made sail and stood off on course. At 11.30 banked fires. Steam pressure 50 lbs. Distilling.

(Signed) Clinton K. Curtis
Lieut.

From Merid. to 4 P.M. Clear. Warm. Light S. E. breeze. At 1.30 set spanker, gaff topsail, jib, F. jib and M. T. M. S. S. Fires banked in four boilers. Steam pressure 25 lbs. Distilling.

(Signed) Samuel C. Lemly
Ensign.

From 4 to 6 P.M. Clear and pleasant. Moderate breeze from S. E. Fires banked in four boilers. Steam pressure [blank]. Distilling.

(Signed) Charles B. T. Moore
Ensign.

From 6 to 8 P.M. Clear and pleasant. Moderate breeze from S. E. At 6.30 shortened and furled sail. At 7 took a sounding in 2219 fathoms water, bottom coral sand and muc. Temp. at bottom 35°.5. F. Banked fires at 8.

(Signed) James K. Cogswell
Lieut.

From 8 to Midnight. Clear and pleasant first three hours, cloudy last hour. Light breeze from S. E. Fires banked in four boilers. Steam pressure 25 lbs. Distilling.

(Signed) Clinton K. Curtis
Lieut.

(Signed) Asa Walker,
Lieut
Navigator.

Examined and found to be correct

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, At Sea

Hour.	Knots	Fathoms.	WINDS.			BAROMETER.		TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
			Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. at'd.	Air Dry Bulb.	Air Wet Bulb.					
A.M															
1	4	4	W 3/4 N	SE	2-3	30.05	77	76	74	77	bc	Cir Cum	3	L	All plain sail
2	6	0	"	"	3-4	30.02	75	76	74	77	"	"	6	"	except F. T. M. S. S.
3	6	0	"	"	3-4	30.01	75	76	74	77	"	"	7	"	and M. sail, with
4	6	0	"	"	3-4	30.02	75	76	75	77	"	"	4	"	M. try sail and M.T.M.S.S.
5	6	6	"	"	4	30.02	75	77	75	77	"	Cum Nimb	3	"	"
6	6	4	"	"	2-5	30.04	74	75	74	77	bcqp	"	1	"	"
7	4	4	"	"	2	30.04	74	74	74	77	op	"	0	"	"
8	4	6	"	"	3	30.06	75	77	75	77	bcp	"	6	"	"
9	5	4	"	ESE	3	30.05	76	78	76	77	bc	"	8	"	"
10	5	6	"	SE by E	3	30.06	76	78	76	77	"	"	7	"	"
11	6	0	"	"	4	30.06	76	78	76	77	"	Cir Cum	7	"	"
Noon	5	6	"	"	3	30.05	77	79	77	78	"	"	7	"	"

Distance run by Log since preceding Noon

112 knots

0 fathoms.

Latitude by D. R. at Noon

18 ° 40 ' 30 " S.

Longitude by D. R. at Noon

18 ° 57 ' 30 " W.

Latitude by Observations at Noon ⊕

18 ° 45 ' 30 " S.

Longitude by Chronometer from Forenoon Observations ⊕

19 ° 05 ' 15 " W.

Current during the time knots 3 fms. per hour, setting to the S. W. by W.

Variation of the Compass by Amplitude ⊕ observed at Sunrise

° " "

Variation of the Compass by Azimuth ⊕ observed at 8 A.M.

19 ° 45 " 00 " W.

Water expended during the preceding 24 hours

300 gallons.

Water Condensed during the preceding 24 hours

700 "

Water remaining on hand fit for me at Noon

2300 "

Coal consumed during the preceding 24 hours

2 tons 270 lbs.

Coal remaining on hand at Noon

116 " 630 "

P.M.

1	5	0	W 3/4 N	SE by E	2-3		30.04	78	80	77	78	bc	Cir Cum	7	L	
2	5	0	"	"	2-3		30.02	78	79	77	78	"	"	5	"	
3	5	0	"	"	2-3		30.02	78	79	77	78	"	"	4	"	
4			Sounding	"	2-3		30.01	78	80	78	78	"	"	5	"	All plain sail
5			Sounding	"	3		30.01	78	80	78	79	"	"	6	"	Except F. T. M. S. S.
6	6	0	W 3/4 N	"	3		30.02	77	79	77	79	"	"	6	"	"
7	6	0	"	"	3		30.05	77	78	77	79	"	"	7	"	"
8	5	6	"	"	3		30.07	77	78	77	79	"	"	8	"	"
9	5	6	"	"	3		30.07	77	78	76	78	"	Cum	9	"	"
10	6	0	"	"	3		30.07	76	78	76	77	"	"	8	"	Except M. sail
11	5	4	"	"	3		30.07	76	78	76	76	"	"	7	"	and jib.
Mid.	6	0	"	"	3		30.07	76	78	76	76	"	"	7	"	"

Longitude by Chronometer from Afternoon Observations ⊕

° ' "

Longitude by Chronometer Observations]

° ' "

Variation of the Compass by Amplitude observed at Sunset

° ' "

Variation of the Compass by at

° ' "

under the command of Commander Winfield Scott Schley, U. S. Navy.
Monday January 28th, 1878.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear. Pleasant. Moderate S. E. breeze. Cir. Cum. clouds. At 1.15 moon rose. Bright moonlight. Fires banked in four boilers. Steam pressure 25 lbs. Distilling.

(Signed) Samuel C. Lemly
Ensign.

From 4 to 8 A.M. Cloudy. Squally first part. Passing showers. Light to moderate breeze from S. E. At 5.10 took in royal and flying jib. At 6.15 set royals and flying jib. Fires banked in four boilers. Steam pressure 25 lbs. Distilling.

(Signed) Charles B. T. Moore
Ensign.

From 8 to Merid. Clear and pleasant. Moderate breeze from S and E. At 9.15 exercised at general quarters. Time casting loose 4 m. Secured in 5 m 30 s. By order of Commander the following punishments was assigned. F. L. Handly (O.S.2.C.) 12 hours extra duty for disobedience of orders and missing muster, Raines, 12 hours extra duty for being asleep on lookout at life buoy. Stopped distiller at 11.40.

(Signed) James K. Cogswell
Lieut.

From Merid. to 4 P.M. Clear and pleasant. Light breeze from S. and E. At 2.15 spread fires. At 3 called "all hands shorten sail," took in and furled sail. At 3.15 commenced sounding. Got bottom at 2652 fathoms, reddish brown mud.

(Signed) Clinton K. Curtis
Lieut.

From 4 to 6 P.M. Clear. Warm. Moderate S. E. breeze. Cir. Cum. clouds. Got temp. at 850 fathoms, 38° F. At 5.10 made all plain sail except F. T. M. S. S. At 5.15 stopped steaming, uncoupled propeller, and banked fires. At 5.40 hauled down flying jib. Fires banked in four boilers. Steam pressure 25 lbs.

(Signed) Samuel C. Lemly
Ensign.

From 6 to 8 P.M. Clear and pleasant. Moderate breeze from S. E. by E. At sunset mustered at quarters. At 6.25 set M. T. M. S. S. At 7.20 took in M. T. M. S. S. Fires banked in four boilers. Steam pressure 25 lbs.

(Signed) Charles B. T. Moore
Ensign.

From 8 to Midnight. Clear and pleasant. Long swell from S. E. Fires banked in four boilers. Steam pressure 25 lbs.

(Signed) James K. Cogswell
Lieut.

(Signed) Asa Walker,
Lieut
Navigator.

Examined and found to be correct

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, At Sea

Hour.	Knots Fathoms.		Courses steered.	WINDS.		Leeway.	BAROMETER.		TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Range of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
				Direction.	Force.		Height in inches.	Ther. at't'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A.M																
1	6	0	W 3/4 N	SE by E	3		30.05	77	78	76	78	bc	Cum	6	L	
2	6	0	"	"	3		30.03	77	78	76	78	"	"	4	"	
3	5	4	"	"	2-3		30.04	76	78	76	78	bcp	"	9	"	
4	6	0	"	"	2-3		30.04	76	78	76	78	bc	"	8	"	
5	6	2	"	SE	4		30.06	76	77	76	78	"	Cir Cum	8	"	All plain sail
6	6	4	"	SE by E	3-4		30.05	76	77	76	78	"	"	8	"	Except F. T. M. S. S.
7	6	2	"	"	3-4		30.06	76	77	76	78	"	"	8	"	
8	6	6	"	"	3-4		30.08	76	78	76	78	"	"	8	"	
9	6	0	"	SE	4		30.07	77	79	77	78	"	"	6	"	
10	3	0	"	ESE	3		30.06	77	79	77	79	"	"	5	"	
11			Sounding	"	3		30.06	78	80	79	79	bcp	"	4	"	
Noon	2	6	W 3/4 N	"	4		30.07	79	82	80	79	BC	"	6	"	

Distance run by Log since preceding Noon

117 knots

0 fathoms.

Latitude by D. R. at Noon

19 ° 08 ' 20 " S.

Longitude by D. R. at Noon

21 ° 06 ' 15 " W.

Latitude by Observations at Noon ⊕

19 ° 09 ' 00 " S.

Longitude by Chronometer from Forenoon Observations ⊕

21 ° 07 ' 45 " W.

Current during the time knots fms. per hour, setting to the

° " "

Variation of the Compass by Amplitude ⊕ observed at Sunrise

Variation of the Compass by Azimuth ⊕ observed at 8 A.M.

20 ° 00 " 00 " W.

Water expended during the preceding 24 hours

350 gallons.

Water during the preceding 24 hours

"

Water remaining on hand fit for me at Noon

1950 "

Coal consumed during the preceding 24 hours

2 tons 510 lbs.

Coal remaining on hand at Noon

114 " 121 "

P.M.

1	6	0	W 3/4 N	ESE	4		30.06	78	82	80	79	bc	Cir Cum	9	L	All plain sail
2	6	2	"	"	4		30.03	78	82	79	80	"	"	5	"	except F. T. M. S. S.
3	5	4	"	"	4		30.03	78	81	79	80	"	"	6	"	"
4	5	4	"	"	4		30.03	77	81	79	80	"	"	8	"	"
5	5	4	"	"	2-3		30.03	77	80	78	80	"	"	7	"	"
6	5	0	"	"	2-3		30.04	77	80	78	80	"	"	7	"	"
7	4	2	"	"	2		30.07	77	79	77	80	"	"	7	"	"
8	4	6	"	SE by E	3		30.07	77	79	77	80	bcp	"	6	"	Except F. jib
9	6	0	"	"	3		30.10	77	78	77	80	bc	Cum Nimb	8	"	"
10	5	6	"	"	3		30.10	77	78	76	80	"	"	7	"	"
11	6	0	"	"	3		30.09	77	78	76	80	"	"	9	"	"
Mid.	5	4	"	SE	3		30.08	77	78	76	80	"	Cum	9	"	"

Longitude by Chronometer from Afternoon Observations ⊕

° ' "

Longitude by Chronometer Observations

° ' "

Variation of the Compass by Amplitude

observed at Sunset

° ' "

Variation of the Compass by

at

° ' "

under the command of Commander Winfield Scott Schley, U. S. Navy.
Tuesday January 29th, 1878.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Partially cloudy. Passing showers second hour, clear latter part. Light breeze from S. and E. At 3.45 set F jib and M. T. M. S. S. Fires banked in four boilers. Steam pressure 25 lbs.

(Signed) Clinton K. Curtis
Lieut.

From 4 to 8 A.M. Clear. Warm. Fresh S. E. breeze. Cum Cir. clouds. Fires banked in four boilers. Steam pressure 25 lbs.

(Signed) Samuel C. Lemly
Ensign.

From 8 to Merid. Clear. Warm. Passing showers third hour. Moderate breeze from S. and E. At 8.30 spread fires. At 9.20 shortened and furled sail. Commenced sounding at 9.36. At 9.35 inspected at quarters. Exercised at company drill. At 10, got bottom at 2771 fathoms, brown mud. At 11.30 called all hands and made sail. Banked fires and uncoupled propeller.

(Signed) Charles B. T. Moore
Ensign.

From Merid. to 4 P.M. Clear and pleasant. Moderate breeze from E. S. E. Long swell from S. E. by E. Fires banked in four boilers. Steam pressure 25 lbs. Distilling.

(Signed) James K. Cogswell
Lieut.

From 4 to 6 P.M. Clear and pleasant. Light breeze from S. and E. At 5.45 set F. jib and M. T. M. S. S. Fires banked in four boilers. Steam pressure 25 lbs. Distilling.

(Signed) Clinton K. Curtis
Lieut.

From 6 to 8 P.M. Clear. Pleasant. Light E. S. E. breeze. Cir. Cum. clouds. At 6, called all hands reef topsails. Took in royals and flying jib and took single reef in topsails. Time 4 m. Shook reefs out and made sail. At 7.30 took in F. jib, M. T. M. S. S. and M. try sail. Fires banked in four boilers. Steam pressure 25 lbs. Distilling.

(Signed) Samuel C. Lemly
Ensign.

From 8 to Midnight. Clear and pleasant. Gentle breeze from S. E. by E. Fires banked in four boilers. Steam pressure 25 lbs. Distilling.

(Signed) Charles B. T. Moore
Ensign.

(Signed) Asa Walker,
Lieut
Navigator.

Examined and found to be correct

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, At Sea

Hour.	Knots Fathoms.		Courses steered.	WINDS.		Leeway.	BAROMETER.		TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
				Direction.	Force.		Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A.M																
1	6	0	W 3/4 N	ESE	4		30.06	76	79	77	79	bc	Cum Nimb	9	L	All plain sail
2	5	4	"	"	4		30.04	76	79	77	79	"	"	9	"	except M. sail,
3	6	4	"	"	4-5		30.02	76	79	77	79	"	"	8	"	jib and flying jib.
4	5	4	"	"	4		30.02	76	79	77	79	"	"	9	"	
5	5	4	"	"	3		30.04	76	79	77	79	"	"	8	"	"
6	2	4	"	"	3		30.05	76	79	77	79	"	"	5	"	"
7	Sounding			"	3		30.05	77	79	77	79	bcp	"	5	"	"
8	4	W 3/4 N		"	3		30.07	77	79	77	79	"	"	3	"	"
9	5	0	"	E by S	3		30.07	78	81	78	79	bc	"	5	"	"
10	6	0	"	"	4		30.07	78	81	79	79	"	Cir Cum	6	"	"
11	5	0	"	"	4		30.07	79	82	79	79	"	"	7	"	"
Noon	6	2	"	"	4		30.07	79	82	80	79	"	"	7	"	"

Distance run by Log since preceding Noon

124 knots

2 fathoms.

Latitude by D. R. at Noon

19 °

33 '

12 " S.

Longitude by D. R. at Noon

23 °

16 '

45 " W.

Latitude by Observations at Noon ⊕

19 °

35 '

30 " S.

Longitude by Chronometer from Forenoon Observations ⊕

23 °

24 '

00 " W.

Current during the time knots fms. per hour, setting to the

°

"

"

Variation of the Compass by Amplitude ⊕ observed at Sunrise

Variation of the Compass by Azimuth ⊕ observed at 8 A.M.

18 °

00 "

00 " W.

Water expended during the preceding 24 hours

400 gallons.

Water Condensed during the preceding 24 hours

700 "

Water remaining on hand fit for me at Noon

2250 "

Coal consumed during the preceding 24 hours

2

tons

1380 lbs.

Coal remaining on hand at Noon

111

"

981 "

P.M.

1	1	4	W 3/4 N	ESE	3		30.06	80	83	81	79	bc	Cir Cum	6	L	All plain sail
	4	2	W 1/2 N													
2	5	4	"	E by S	3		30.05	80	83	80	79	"	"	3	"	except M. sail
3	5	2	"	"	4		30.03	79	82	80	79	"	"	5	"	jib and flying jib.
4	5	4	"	"	3		30.02	79	83	81	79	"	"	6	"	"
5	5	4	"	"	3		30.03	78	81	79	79	"	"	5	"	"
6	6	2	"	"	3		30.05	78	81	79	79	"	"	3	"	"
7	5	0	"	"	2-3		30.06	78	80	78	79	"	"	7	"	"
8	5	4	"	"	2-3		30.08	78	79	77	79	"	"	5	"	"
9	5	2	"	"	3		30.09	78	80	78	79	"	"	3	"	"
10	5	2	"	"	3		30.09	78	80	78	79	"	"	3	"	"
11	5	0	"	"	3		30.08	78	80	78	79	"	"	4	"	"
Mid.	5	0	"	"	3		30.07	78	80	78	79	"	"	2	"	"

Longitude by Chronometer from Afternoon Observations ⊕

°

'

"

Longitude by Chronometer Observations

]

°

'

"

Variation of the Compass by Amplitude

observed at Sunset

°

'

"

Variation of the Compass by

at

°

'

"

under the command of Commander Winfield Scott Schley, U. S. Navy.
Wednesday January 30th, 1878.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear and pleasant. Moderate breeze from E. S. E. Moon rose at 2.50. Fires banked in four boilers. Distilling.

(Signed) James K. Cogswell
Lieut.

From 4 to 8 A.M. Partially cloudy. Light sprinkling of rain latter part. Moderate breeze from E. S. E. At 5 spread fires, took in and furled light sails and foresail. At 5.15 shortened and furled all sail. At 5.34 got sounding in 2780 fathoms, bottom reddish brown mud. At 7.05 made sail and stood off on course. At 7.23 uncoupled propeller and banked fires. At 7.50 set F. T. M. S. S. and hauled down jib and flying jib, also M. T. M. S. S. Fires banked in four boilers. Distilling.

(Signed) Clinton K. Curtis
Lieut.

From 8 to Merid. Clear. Warm. Fresh E. by S. breeze. Cir. Cum. clouds. At 9.15 inspected at quarters and exercised 1st and 2nd Divisions at great guns. At 11.30 stopped distiller. Fires banked in four boilers. Steam pressure 25 lbs.

(Signed) Samuel C. Lemly
Ensign.

From Merid. to 4 P.M. Clear. Warm. Moderate breeze from E. by S. At 12.15 changed course to W. 1/2 N. Fires banked in four boilers. Steam pressure 25 lbs.

(Signed) Charles B. T. Moore
Ensign.

From 4 to 6 P.M. Cloudy and pleasant. Moderate breeze from S. and E. Slushed spars. Fires banked in four boilers. Steam pressure 25 lbs.

(Signed) James K. Cogswell
Lieut.

From 6 to 8 P.M. Partially cloudy. Pleasant. Light breeze from S. and E. Fires banked in four boilers. Steam pressure 25 lbs.

(Signed) Clinton K. Curtis
Lieut.

From 8 to Midnight. Cloudy. Pleasant. Light E. by S. breeze. Cir. Cum. clouds. Fires banked in four boilers. Steam pressure 25 lbs.

(Signed) Samuel C. Lemly
Ensign.

(Signed) Asa Walker,
Lieut
Navigator.

Examined and found to be correct

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, At Sea

Hour.	Knots Fathoms.		Courses steered.	WINDS.		Leeway.	BAROMETER.		TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
				Direction.	Force.		Height in inches.	Ther. at't'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A.M.																
1	6	0	W 1/2 N	ESE	3		30.06	78	80	79	80	o	Cum Nimb	0	L	
2	1	4	"	SE by E	3		30.05	78	80	79	80	bc	"	6	"	
3				"	3		30.05	78	80	79	80	"	"	2	"	
4			Sounding	E by S	4		30.03	78	80	79	80	o	"	0	"	All plain sail
5	5	0	W 1/2 N	ENE	4		30.02	77	79	79	80	"	"	0	"	except M. sail
6	3	2	"	"	2		30.02	77	79	77	80	bc	"	1	"	jib and F. jib.
7	4	0	"	"	3		30.00	77	79	77	80	op	"	0	"	"
8	3	4	"	"	2-3		30.05	77	79	77	80	o	"	0	"	"
9	4	4	"	ESE	2-3		30.06	78	80	78	80	bcp	"	1	"	"
10	5	4	"	E by S	2-3		30.06	78	82	79	80	bc	"	4	"	"
11	4	4	"	"	2-3		30.07	79	82	79	80	"	"	6	"	"
Noon	3	2	"	"	2-3		30.07	81	85	82	80	"	"	4	"	"

Distance run by Log since preceding Noon	106 knots	2 fathoms.
Latitude by D. R. at Noon	19 °	56 ' 14 " S.
Longitude by D. R. at Noon	25 °	15 ' 00 " W.
Latitude by Observations at Noon ⊕	20 °	03 ' 41 " S.
Longitude by Chronometer from Forenoon Observations ⊕	25 °	28 ' 00 " W.
Current during the time knots 4 fms. per hour, setting to the W. 30 ° S.		
Variation of the Compass by Amplitude ⊕ observed at Sunrise	°	" "
Variation of the Compass by Azimuth ⊕ observed at 8 A.M.	18 °	00 " 00 " W.
Water expended during the preceding 24 hours		350 gallons.
Water during the preceding 24 hours		"
Water remaining on hand fit for me at Noon		1900 "
Coal consumed during the preceding 24 hours	2 tons	170 lbs.
Coal remaining on hand at Noon	109 "	811 "

P.M.																
1	2	6	W 1/2 N	E 1/2 S	2		30.05	81	87	85	80	bc	Cir Cum	8	L	All plain sail
2	3	2	"	"	2		30.03	82	86	85	80	"	"	8	"	except M. sail
3	6	0	"	E by N	4		30.03	80	83	81	80	"	"	7	"	jib and F. jib.
4	5	4	"	"	2-3		30.00	80	83	81	80	"	"	8	"	"
5	3	0	"	E	2		30.00	80	84	82	80	"	"	8	"	"
6	2	6	"	E by S	2		30.02	80	82	80	80	"	"	9	"	"
7	2	4	"	"	2		30.03	79	82	80	80	"	"	9	"	"
8	2	0	"	"	2		30.06	79	81	80	80	"	"	9	"	"
9	3	0	"	"	1		30.07	79	80	80	80	bcp	Cum Nimb	1	"	"
10	3	4	"	"	1-2		30.08	79	80	78	80	bc	"	2	"	"
11	3	0	"	"	1-2		30.08	79	80	78	80	"	"	2	"	"
Mid.	3	4	"	"	1-2		30.07	79	80	79	80	"	"	3	"	"

Longitude by Chronometer from Afternoon Observations ⊕	°	'	"
Longitude by Chronometer Observations]	°	'	"
Variation of the Compass by Amplitude observed at Sunset	°	'	"
Variation of the Compass by at	°	'	"

under the command of Commander Winfield Scott Schley, U. S. Navy.
Thursday January 31st, 1878.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Cloudy. Pleasant. Moderate breeze from S. and E. At 1.05 took in and furled light sails and foresail. At 1.20 took in and furled topsails. At 1.45 commenced sounding. Got bottom at 3284 fathoms, brown mud. Temp. at bottom 33°.5. At 3.45 set topsails and F. T. M. S. S. Fires in four boilers.

(Signed) Charles B. T. Moore
Ensign.

From 4 to 8 A.M. Overcast and pleasant. Passing showers. Light breeze from N. and E. At 4 made sail to royals. Banked fires in four boilers. Steam pressure 25 lbs.

(Signed) James K. Cogswell
Lieut.

From 8 to Merid. Partially cloudy. Warm. Pleasant. Light breeze from S. and E. At 9.15 inspected at quarters. Exercised at single sticks by companies. Fires banked in four boilers. Steam pressure 25 lbs.

(Signed) Clinton K. Curtis
Lieut.

From Merid. to 4 P.M. Clear. Warm. Light breeze from E. Fires banked in four boilers. Breeze freshening and shifting to N. of E. Steam pressure 25 lbs. Cir. Cum. clouds.

(Signed) Samuel C. Lemly
Ensign.

From 4 to 6 P.M. Clear and warm. Light breeze from E. Fires banked in four boilers. Steam pressure 25 lbs.

(Signed) Charles B. T. Moore
Ensign.

From 6 to 8 P.M. Clear and pleasant. Light breeze from S. and E. At 6.15 exercised at reefing topsails. At 6.30 mustered at quarters. Fires banked in four boilers. Steam pressure 25 lbs. Distilling.

(Signed) James K. Cogswell
Lieut.

From 8 to Midnight. Cloudy. Passing showers first hour. Light breeze from S. and E. Fires banked in four boilers. Steam pressure 25 lbs. Distilling.

(Signed) Clinton K. Curtis
Lieut.

(Signed) Asa Walker,
Lieut
Navigator.

Examined and found to be correct

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, At Sea

Hour.	Knots Fathoms.		WINDS.			BAROMETER.		TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.	
			Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.						Water at surface.
A.M																
1	4	0	W 1/2 N	E 1/2 N	2		30.04	78	80	78	80	bc	Cir Cum	5	L	All plain sail
2	4	0	"	"	2		30.02	78	80	78	80	"	"	6	"	except M. sail,
3	4	0	"	"	2		30.00	78	80	78	80	"	"	7	"	jib and F. jib.
4	4	0	"	"	2		30.00	78	80	78	80	"	"	7	"	
5	4	4	"	E	3		30.02	78	80	78	80	"	"	8	"	"
6	4	0	"	"	4		30.02	78	80	78	80	"	"	8	"	"
7	1	0	"	E by S	3		30.03	79	81	79	81	"	Cum Nimb	5	"	"
8	Sounding			"	3-5		30.03	79	81	79	81	bcqp	"	2	"	"
9	5	4	W 1/2 N	E by N	5		30.05	80	82	79	82	bc	"	9	"	"
10	6	0	"	"	4-5		30.05	80	83	80	82	"	"	8	"	"
11	6	0	"	"	5		30.05	80	83	80	83	"	"	2	"	"
Noon	5	2	"	ENE	4		30.03	81	84	82	83	"	"	2	"	"

Distance run by Log since preceding Noon 89 knots 0 fathoms.

Latitude by D. R. at Noon 20 ° 25 ' 17 " S.

Longitude by D. R. at Noon 27 ° 00 ' 00 " W.

Latitude by Observations at Noon ⊕ 20 ° 26 ' 05 " S.

Longitude by Chronometer from Forenoon Observations ⊕ 27 ° 06 ' 00 " W.

Current during the time knots 2 fms. per hour, setting to the W. by S.

Variation of the Compass by Amplitude ⊕ observed at Sunrise ° " "

Variation of the Compass by Azimuth ⊕ observed at 8 A.M. 18 ° 25 " 00 " W.

Water expended during the preceding 24 hours 350 gallons.

Water Condensed during the preceding 24 hours 500 "

Water remaining on hand fit for me at Noon 2100 "

Coal consumed during the preceding 24 hours 2 tons 1500 lbs.

Coal remaining on hand at Noon 106 " 1551 "

P.M.

1	4	4	W 1/2 N	E by N	3		30.03	81	86	83	83	bc	Cum	8	L	All plain sail
2	4	4	"	"	3		30.03	81	86	82	83	"	"	8	"	except M. sail,
3	4	0	"	"	2-3		30.03	81	84	82	83	"	"	8	"	jib and F. jib.
4	3	4	"	"	2-3		30.02	80	84	82	83	"	Cir Cum	8	"	"
5	3	0	"	"	2		30.03	80	83	81	83	"	"	8	"	"
6	2	4	"	"	2		30.03	80	83	81	83	bcqp	Cum Nimb	8	"	"
7	3	4	"	E	2-4		30.02	80	82	80	83	bc	"	3	"	"
8	5	0	"	ESE	3		30.06	79	81	79	83	"	"	2	"	"
9	3	4	"	SE by E	3		30.09	79	81	79	83	"	"	8	"	"
10	3	0	"	"	3		30.09	79	81	79	83	"	"	6	"	"
11	4	6	"	"	4		30.08	79	81	79	82	"	"	6	"	"
Mid.	5	0	"	"	4		30.07	79	78	77	82	"	"	9	"	"

Longitude by Chronometer from Afternoon Observations ⊕ ° ' "

Longitude by Chronometer Observations] ° ' "

Variation of the Compass by Amplitude observed at Sunset ° ' "

Variation of the Compass by at ° ' "

under the command of Commander Winfield Scott Schley, U. S. Navy.
Friday February 1st, 1878.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear. Pleasant. Light S. E. breeze. Cir. Cum. clouds. Fires banked in four boilers. Steam pressure 25 lbs. Distilling.

(Signed) Samuel C. Lemly
Ensign.

From 4 to 8 A.M. Clear and pleasant first part. Passing showers last hour. Moderate breeze from E. At 5.30 took in and furled light sails and foresail. At 6.05 took in and furled topsails and F. T. M. S. S. Commenced sounding at 6.20. At 6.55 got bottom at 2991 fathoms, brown muc. Temp. at bottom 53°. Temp. at 200 fathoms 54°. At 8, started ahead on course. Fires in four boilers.

(Signed) Charles B. T. Moore
Ensign.

From 8 to Merid. Clear and pleasant. Moderate breeze from N. and E. At 9.15 exercised at fire quarters. Time of starting first steam, 40 s. Engineers 45 s. 2nd stream, 1 m. By order of Commander the following punishments were assigned. Lewis Potts (O.S.2.C.) for smoking out of hours, repeated offence, to report to the Officer of the Deck and the end of each meal, for one week. Robert Landon (O.S.2.C.) and Asa Mitchell (Lds) asleep on watch, 6 hours extra duty. Fires banked in four boiler.

(Signed) James K. Cogswell
Lieut.

From Merid. to 4 P.M. Clear warm and pleasant. Light breeze from E. by N. At 1.15 hauled down M. T. M. S. S. Fires banked in four boilers. Steam pressure 25 lbs. Distilling.

(Signed) Clinton K. Curtis
Lieut.

From 4 to 6 P.M. Clear. Warm. Gentle breeze from E. by N. Cir. Cum. clouds. At 5.45 exercised at reefing foresail. Fires banked in four boilers. Steam pressure 25 lbs. Distilling.

(Signed) Samuel C. Lemly
Ensign.

From 6 to 8 P.M. Cloudy. Squally, with light sprinkling of rain first hour. Light breeze from E. At sunset mustered at quarters. At 7.10 took in spanker and gaff topsail.

(Signed) Charles B. T. Moore
Ensign.

From 8 to Midnight. Clear and pleasant. Moderate breeze from S. and E. Fires banked in four boilers. Distilling.

(Signed) James K. Cogswell
Lieut.

(Signed) Asa Walker,
Lieut
Navigator.

Examined and found to be correct

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns,

Hour.	Knots Fathoms.		Courses steered.	WINDS.			BAROMETER.			TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
				Direction.	Force.	Leeway.	Height in inches.	Ther. at't'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.						
A.M																	
1	5	0	W 1/2 N	ESE	3		30.05	79	82	80	80	bc	Cum Nimb	8	L	All plain sail	
2	4	4	"	"	3		30.03	79	81	79	80	"	"	6	"	except M. sail.	
3	4	4	"	"	3		30.03	79	81	79	80	"	"	2	"	jib and F. jib.	
4	5	0	"	"	3		30.02	79	81	79	80	"	"	1	"		
5	4	6	"	"	2		30.04	80	81	79	80	"	"	2	"	"	
6	5	0	"	"	2		30.06	80	81	79	82	"	Cir Cum	6	"	"	
7	2	0	"	"	3		30.08	80	82	80	82	"	"	8	"	"	
8			Sounding	E	3		30.08	80	82	80	82	"	"	8	"	"	
9	6	2	W by N	"	4		30.09	80	83	80	82	"	"	6	"	"	
10	6	2	"	E by N	4		30.08	80	83	81	82	"	"	7	"	"	
11	6	0	"	E	4		30.08	81	83	81	83	"	"	8	"	"	
Noon	5	6	"	"	4		30.08	82	84	82	83	"	"	8	"	"	

Distance run by Log since preceding Noon

101 knots

6 fathoms.

Latitude by D. R. at Noon

20 ° 28 ' 24 " S.

Longitude by D. R. at Noon

28 ° 52 ' 00 " W.

Latitude by Observations at Noon ⊕

20 ° 47 ' 30 " S.

Longitude by Chronometer from Forenoon Observations ⊕

28 ° 51 ' 40 " W.

Current during the time knots fms. per hour, setting to the

° " "

Variation of the Compass by Amplitude ⊕ observed at Sunrise

Variation of the Compass by Azimuth ⊕ observed at 8 A.M.

17 ° 30 " 00 "W.

Water expended during the preceding 24 hours

350 gallons.

Water Condensed during the preceding 24 hours

400 "

Water remaining on hand fit for me at Noon

2300 "

Coal consumed during the preceding 24 hours

2 tons 1170 lbs.

Coal remaining on hand at Noon

104 " 381 "

P.M.

1	4	4	W by N	E	4		30.08	85	85	83	83	bc	Cir Cum	6	L	All plain sail
2	4	6	"	"	4		30.07	83	85	83	83	"	"	5	"	except M. sail,
3	5	0	"	E by S	4		30.05	82	84	82	83	"	"	6	"	jib and F. jib.
4	4	4	"	"	3		30.05	82	84	82	83	"	"	7	"	"
5	4	4	"	"	3		30.05	80	83	82	83	"	"	7	"	"
6	3	6	"	"	3		30.05	80	83	81	83	"	"	7	"	"
7	4	0	"	"	3		30.07	80	83	81	82	"	"	8	"	"
8	4	4	"	"	2		30.09	80	80	76	82	"	"	8	"	"
9	4	4	"	"	2		30.11	80	82	80	82	"	"	5	"	"
10	4	2	"	E by S	2		30.12	80	82	80	82	"	"	9	"	"
11	5	0	"	"	2		30.12	80	82	80	82	"	"	7	"	"
Mid.	6	4	"	E	2-4		30.11	80	82	80	82	bcq	Cum Nimb	5	"	"

Longitude by Chronometer from Afternoon Observations ⊕

° ' "

Longitude by Chronometer Observations

° ' "

Variation of the Compass by Amplitude

observed at Sunset

° ' "

Variation of the Compass by

at

° ' "

under the command of Commander Winfield Scott Schley, U. S. Navy.
Saturday February 2nd, 1878.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear and pleasant first hour, cloudy latter part. Light breeze from E.S.E. Fires banked in four boilers. Steam pressure 25 lbs. Distilling.

(Signed) Clinton K. Curtis
Lieut.

From 4 to 8 A.M. Clear. Warm. Light E.S.E. breeze. At 5.30 spread fires. At 6, took in and furled topgallant sails and royals. At 6.15 took in and furled topsails and coupled propeller. At 6.20 started ahead with engine. At 6.30 commenced sounding. At 7 got bottom in 2635 fathoms water, bottom mud and black sand. At 7.52 finished sounding. At 7.58 made square sail to royals, except foresail. At 8, started ahead on courses, W. by N. At 6, sighted Martin Vas Rocks (pc) N. W. by W. 1/2 W.

(Signed) Samuel C. Lemly
Ensign.

From 8 to Merid. Clear. Warm. Moderate breeze from E. At 8.15 stopped steaming, uncoupled propeller and banked fires. Set spanker and gaff topsail. At 9.45 set jib, F. jib and M. T. M. S. S, hauled down F. T. M. S. S. At 10.15 set Main trysail. Aired bedding. At 9.55 sighted the Island of Trinidad bearing (pc) N. W. by W. Fires banked in four boilers. Steam pressure 25 lbs. Distilling.

(Signed) Charles B. T. Moore
Ensign.

From Merid. to 4 P.M. Cloudy. Warm. Moderate breeze from E. Fires banked in four boilers. Steam pressure 25 lbs. Distilling.

(Signed) James K. Cogswell
Lieut.

From 4 to 6 P.M. Clear and pleasant. Warm. Light breeze from E. Fires banked in four boilers. Steam pressure 25 lbs. Distilling.

(Signed) Clinton K. Curtis
Lieut.

From 6 to 8 P.M. Clear. Warm. Light E[aster]ly breeze. Cir. Cum. clouds. At sunset mustered at quarters. At end of watch Trinidad Island bore (pc) N. E. by N. Fires banked in four boilers. Distilling.

(Signed) Samuel C. Lemly
Ensign.

From 8 to Midnight. Clear and pleasant. Squally last hour. Light breeze from E. At 8.45 took in spanker and gaff topsail. Fires banked in four boilers. Steam pressure 25 lbs.

(Signed) Charles B. T. Moore
Ensign.

(Signed) Asa Walker,
Lieut
Navigator.

Examined and found to be correct

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, At Sea

Hour.	WINDS.					BAROMETER.		TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.	
	Knots.	Fathoms.	Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. at'd.	Air Dry Bulb.	Air Wet Bulb.						Water at surface.
A,M																
1	4	6	W by N	E by S	3		30.09	80	81	79	82	bc	Cum Nimb	9	L	All plain sail
2	4	4	"	"	3-5		30.07	80	81	79	82	"	"	9	"	except M. sail,
3	6	4	"	"	3-5		30.07	80	81	79	82	"	"	9	"	"
4	5	0	"	"	3-5		30.04	80	81	79	82	"	"	9	"	"
5			Sounding	"	4		30.06	80	81	79	82	"	"	9	"	"
6				"	4		30.07	80	81	79	82	"	"	4	"	"
7	6	0	W by N	"	3-5		30.08	80	81	79	82	bcq	"	2	"	"
8	5	6	"	"	3-4		30.09	81	81	80	82	bc	"	4	"	"
9	7	0	"	ENE	3-6		30.06	78	81	79	82	bcqt	"	1	"	"
10	4	4	"	E	3		30.10	81	81	81	82	bc	"	8	"	"
11	5	2	"	ENE	3		30.12	81	83	82	82	"	Cir Cum	8	"	All plain sail
Noon	5	0	"	E by N	3		30.10	81	84	83	82	"	"	7	"	except F.T.M.S.S.

Distance run by Log since preceding Noon	110 knots	0 fathoms.
Latitude by D. R. at Noon	20 °	58 ' 00 " S.
Longitude by D. R. at Noon	30 °	48 ' 40 " W.
Latitude by Observations at Noon ⊕	21 °	01 ' 30 " S.
Longitude by Chronometer from Forenoon Observations ⊕	30 °	44 ' 00 " W.
Current during the time	knots 2	fms. per hour, setting to the E 38° S.
Variation of the Compass by Amplitude ⊕ observed at Sunrise	°	" "
Variation of the Compass by Azimuth ⊕ observed at	°	" "
Water expended during the preceding 24 hours		350 gallons
Water Condensed during the preceding 24 hours		300 "
Water remaining on hand fit for me at Noon		2400 "
Coal consumed during the preceding 24 hours	2 tons	720 lbs.
Coal remaining on hand at Noon	101 "	1901 "

P.M															
1	1	2	W by N	NE by E	2-5		30.09	82	83	82	82	bcq	Cum Nimb	2	L All plain sail
2	3	4	W 3/4 N	E	2		30.08	82	83	84	82	bc	"	3	" Except F. T. M. S. S.
3	5	2	"	"	3		30.09	82	86	84	82	"	"	5	" "
4	4	6	"	E by N	3		30.06	82	85	84	82	"	"	6	" "
5	5	0	"	"	3		30.07	82	84	83	83	"	"	2	" "
6	4	4	"	"	3		30.07	82	83	82	83	"	"	5	" "
7	5	0	"	"	3		30.08	81	83	82	83	"	"	6	" "
8	5	4	"	"	3		30.10	81	83	82	83	bcp	"	3	" "
9	5	6	"	"	3		30.11	81	83	82	83	bc	"	7	" "
10	6	0	"	E	4		30.12	81	83	82	83	"	"	8	" "
11	6	2	"	"	4		30.13	81	83	82	83	"	"	8	" All plain sail
Mid.	6	0	"	"	4		30.11	81	83	81	83	"	"	8	" except M. sail jib and F. jib.
Longitude by Chronometer from Afternoon Observations ⊕												°	'	"	
Longitude by Chronometer Observations												°	'	"	
Variation of the Compass by Amplitude												°	'	"	
Variation of the Compass by												°	'	"	

under the command of Commander Winfield Scott Schley, U. S. Navy.
Sunday February 3rd, 1878.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear and pleasant. Moderate breeze from S. and E. At 3 spread fires in four boilers. Shortened and furled sail at 3.40. Commenced sounding at 4.

(Signed) James K. Cogswell
Lieut.

From 4 to 8 A.M. Partially cloudy. Pleasant first part. Squally and rainy third hour. Moderate breeze from E. by S. At 4.09 got sounding in 2694 fathoms water, bottom light mud. At 6 made sail and stood on course. Banked fires. At 6.45 took in royals to a squall, set them again at 7. Fires banked in four boilers.

(Signed) Clinton K. Curtis
Lieut.

From 8 to Merid. Cloudy. Squally. Rainy first hour. Clear and warm latter part of watch. Light breeze from E. At 8.25 took in royals to a squall. At 8.35 took in top gallant sails. At 9.05 set royals and top gallant sails. At 9.30 called all hands to muster, read Articles of War and prayers. Mustered crew. At 10.45 set spanker, gaff topsail, jib, F. jib and M. T. M. S. S, hauled down F. T. M. S. S. Fires banked in four boilers. Steam pressure 25 lbs.

(Signed) Samuel C. Lemly
Ensign.

From Merid. to 4 P.M. Cloudy. Squally first hour. Light breeze from E. At 12.05 took in M.T.M.S.S. At 12.15 changed course to W. 3/4 N. At 12.25 took in royals, F. jib and gaff topsail. At 12.55 set royals, F. jib and gaff topsails. At 1.35 took in spanker. Fires banked in four boilers. Steam pressure 25 lbs.

(Signed) Charles B. T. Moore
Ensign.

From 4 to 6 P.M. Cloudy and pleasant. Moderate breeze from N. and E. Fires banked in four boilers. Steam pressure 25 lbs.

(Signed) James K. Cogswell
Lieut.

From 6 to 8 P.M. Partially cloudy. Warm. Light sprinkling of rain second hour. At 6.45 hauled down jib and F. jib. Set F. T. M. S. S. Fires banked in four boilers. Steam pressure 25 lbs.

(Signed) Clinton K. Curtis
Lieut.

From 8 to Midnight. Clear. Pleasant. Fresh E[aster]ly breeze. Cir. Cum. Nimb. clouds. At 11.50 spread fires for sounding.

(Signed) Samuel C. Lemly
Ensign.

Examined and found to be correct

Asa Walker, Lieut
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, At Sea

Hour.			Courses steered.	WINDS.		Leeway.	BAROMETER.		TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
	Knots.	Fathoms.		Direction.	Force.		Height in inches.	Ther. at'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A,M																
1	2	0	W 3/4 N	East	3		30.10	80	82	80	82	bc	Cum Nimb	9	L	All plain sail
2			Sounding	"	4		30.08	80	82	80	82	"	"	8	"	and F.T. M. S. S.
3	3	0	W 3/4 N	"	4		30.07	80	82	80	82	"	"	8	"	"
4	5	6	"	"	4		30.07	79	80	79	82	"	"	6	"	"
5	6	0	"	"	4		30.06	80	82	80	82	"	"	5	"	"
6	6	0	"	"	5		30.06	80	82	80	82	"	"	7	"	"
7	6	0	"	"	5		30.08	80	82	81	83	"	"	9	"	"
8	5	2	"	"	5		30.08	80	82	81	83	"	"	6	"	"
9	5	4	"	"	3-4		30.08	81	84	82	83	"	"	9	"	"
10	5	4	"	"	3-4		30.08	81	84	82	83	"	"	9	"	"
11	5	2	"	"	3-4		30.08	82	85	83	83	"	"	9	"	"
Noon	6	2	"	"	3-4		30.08	83	86	83	83	"	"	9	"	"

Distance run by Log since preceding Noon	119	knots	0	fathoms.	
Latitude by D. R. at Noon	21	°	13	'	12 " S.
Longitude by D. R. at Noon	32	°	51	'	00 " W.
Latitude by Observations at Noon ⊕	21	°	17	'	25 " S.
Longitude by Chronometer from Forenoon Observations ⊕	32	°	50	'	45 " W.
Current during the time		knots		fms. per hour, setting to the	
Variation of the Compass by Amplitude ⊕ observed at Sunrise			°		" "
Variation of the Compass by Azimuth ⊕ observed at 8 A.M.	13	°	35	"	00 " W.
Water expended during the preceding 24 hours					350 gallons
Water Condensed during the preceding 24 hours					200 "
Water remaining on hand fit for me at Noon					2000 "
Coal consumed during the preceding 24 hours	3	tons	460	lbs.	
Coal remaining on hand at Noon	98	"	1441	"	

P,M																
1	5	2	W 1/4 N	East	3		30.06	84	89	87	83	bc	Cir Cum	9	L	All plain sail
2	4	4	"	"	3		30.06	84	89	88	83	"	"	9	"	and F.T.M.S.S.
3	4	0	"	"	3		30.06	84	88	86	83	"	"	4	"	"
4	4	4	"	"	3		30.05	84	87	83	83	"	"	7	"	"
5	5	0	"	"	3		30.05	83	85	82	83	"	"	7	"	"
6	5	4	"	ESE	4		30.06	82	84	81	83	"	"	3	"	"
7	5	6	"	"	4		30.07	81	82	81	83	"	"	3	"	"
8	5	0	"	"	4		30.07	81	82	82	83	"	"	5	"	"
9			Sounding	"	3		30.09	81	81	82	83	"	"	66	"	"
10	1	2	W 1/4 N	E	3		30.10	81	81	82	82	"	"	6	"	"
11	4	0	"	"	3-4		30.10	81	82	82	82	bcqr	Cum Nimb	3	"	"
Mid.	3	0	"	"	3		30.10	81	82	82	82	"	"	1	"	"

Longitude by Chronometer from Afternoon Observations ⊕	°	'	"
Longitude by Chronometer Observations	°	'	"
Variation of the Compass by Amplitude	°	'	"
Variation of the Compass by	°	'	"

under the command of Commander Winfield Scott Schley, U. S. Navy.
Monday February 4th, 1878.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear and pleasant. Moderate breeze from E. At 12.05 took in light sails and foresail. At 12.20 took in topsails and commenced sounding. Got bottom at 2433 fathoms, light brown mud. Temp at bottom 32°.5. Temp at 400 fathoms 41°.5. At 2.42 made sail to royals. Banked fires.

(Signed) Charles B. T. Moore
Ensign.

From 4 to 8 A.M. Cloudy. Pleasant. Moderate breeze from E. Ship rolling considerable. Fires banked in four boilers.

(Signed) James K. Cogswell
Lieut.

From 8 to Merid. Clear. Warm and pleasant. Moderate breeze from E. Engaged in breaking out and re-stowing fore hold. Fires banked in four boilers. Steam pressure 25 lbs.

(Signed) Clinton K. Curtis
Lieut.

From Merid. to 4 P.M. Clear. Warm. Light E[aster]ly breeze. Sighted two sail, one a ship standing to E, the other an English brigantine standing to N. and E. Exchanged colors with the latter. Fires banked in four boilers. Steam pressure 25 lbs. Distilling.

(Signed) Samuel C. Lemly
Ensign.

From 4 to 6 P.M. Clear. Warm. Moderate breeze from E, shifting to S. At 5.35 set spanker, gaff topsail. At 5.45 set jib, M.T.M.S.S. and main try sail. Fires banked in four boilers. Steam pressure 25 lbs. Distilling.

(Signed) Charles B. T. Moore
Ensign.

From 6 to 8 P.M. Cloudy and pleasant. Moderate breeze from E. S. E. Started fires at 7.15. At 7.50 shortened and furled sail.

(Signed) James K. Cogswell
Lieut.

From 8 to Midnight. Cloudy. Light breeze from E. Squally, with light rains latter part. At 8.04 got sounding in 2386 fathoms, bottom light brown mud. At 9.43 made sail and stood off on course. Banked fires and disconnected propeller. Steam pressure 25 lbs. Distilling.

(Signed) Clinton K. Curtis
Lieut.

Examined and found to be correct

Asa Walker, Lieut
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, At Sea

Hour.	Knots. Fathoms.		WINDS.			BAROMETER.			TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
			Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. at'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A,M																
1	3	2	W 1/4 N	East	3		30.09	81	83	81	83	bc	Cum Nimb	8	L	All plain sail.
2	3	2	"	"	2		30.07	81	83	81	83	bcp	"	5	"	"
3	4	2	"	"	3		30.07	81	83	81	83	bc	"	5	"	"
4	4	4	"	"	3		30.07	81	83	81	83	"	"	6	"	"
5	3	6	"	"	2		30.07	81	82	81	83	"	"	5	"	"
6	4	4	"	"	3		30.08	81	82	81	83	bcp	"	3	"	"
7	5	0	"	"	2		30.09	81	82	81	83	bc	"	4	"	"
8	4	0	"	"	2		30.10	81	82	81	83	"	"	2	"	"
9	4	6	"	"	3		30.11	81	83	82	83	"	"	5	"	"
10	4	4	"	"	3		30.11	82	84	83	83	"	"	8	"	"
11	4	0	"	"	3		30.11	83	85	83	83	"	"	9	"	"
Noon	3	4	"	"	3		30.10	84	86	84	83	"	"	9	"	"

Distance run by Log since preceding Noon 97 knots 0 fathoms.

Latitude by D. R. at Noon 21 ° 33 ' 31 " S.

Longitude by D. R. at Noon 34 ° 33 ' 45 " W.

Latitude by Observations at Noon ⊕ 21 ° 39 ' 32 " S.

Longitude by Chronometer from Forenoon Observations ⊕ 34 ° 38 ' 00 " W.

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊕ observed at Sunrise ° " "

Variation of the Compass by Azimuth ⊕ observed at 8 A.M. 11 ° 45 " 00 " W.

Water expended during the preceding 24 hours 350 gallons

Water Condensed during the preceding 24 hours 400 "

Water remaining on hand fit for me at Noon 2200 "

Coal consumed during the preceding 24 hours 2 tons 130 lbs.

Coal remaining on hand at Noon 96 " 1311 "

P,M																
1	3	4	W 1/4 N	E	2-3		30.10	85	88	86	83	bc	Cum	8	L	All plain sail
2	3	4	"	"	2-3		30.09	85	88	86	83	"	"	8	"	except spanker
3	4	0	"	"	2-3		30.07	84	87	84	83	"	"	8	"	and gaff topsail.
4	4	0	"	"	2-3		30.07	84	88	86	83	"	"	8	"	"
5	4	2	"	"	3		30.06	84	86	84	83	"	Cir Cum	7	"	"
6	4	4	"	"	3		30.07	83	85	83	83	"	"	6	"	"
7	4	4	"	E by N	3		30.06	83	85	83	83	"	"	8	"	"
8	4	4	"	"	2		30.08	83	85	83	83	"	"	9	"	"
9	3	6	"	"	2		30.10	83	84	83	83	"	Cum	9	"	"
10	4	0	"	"	3		30.10	83	84	83	83	"	"	9	"	"
11	0	6	"	"	3		30.10	83	84	83	83	"	"	9	"	"
Mid.		Sounding	"	"	3		30.10	83	84	83	83	"	"	9	"	"

Longitude by Chronometer from Afternoon Observations ⊕ ° ' "

Longitude by Chronometer Observations ° ' "

Variation of the Compass by Amplitude observed at Sunset ° ' "

Variation of the Compass by at ° ' "

under the command of Commander Winfield Scott Schley, U. S. Navy.
Tuesday February 5th, 1878.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Cloudy. Passing showers first hour of watch. Light E[aster]ly breeze. Cum. Nimb. clouds. Fires banked in four boilers. Steam pressure 25 lbs. Distilling.

(Signed) Samuel C. Lemly
Ensign.

From 4 to 8 A.M. Cloudy. Pleasant. Passing showers second hour. Light breeze from E. At 5.50 took in royals. At 6.05 set royals. Fires banked in four boilers. Steam pressure 25 lbs. Distilling.

(Signed) Charles B. T. Moore
Ensign.

From 8 to Merid. Clear and warm. Light breeze from E. At 9.15 inspected at quarters. Exercised companies A and B at infantry drill. At 10 passed an English ship, which signaled his distinguishing members W.T.H.V. 33 days out from London bound for Otago, and requested to be reported. Fires banked in four boilers.

(Signed) James K. Cogswell
Lieut.

From Merid. to 4 P.M. Clear and warm. Light breeze from E. At 2.45 took in spanker and gaff topsail. Fires banked in four boilers. Steam pressure 25 lbs. Distilling.

(Signed) Clinton K. Curtis
Lieut.

From 4 to 6 P.M. Clear. Warm. Gentle E[aster]ly breeze. Cir. Cum. clouds. Fires banked in four boilers. Steam pressure 25 lbs.

(Signed) Samuel C. Lemly
Ensign.

From 6 to 8 P.M. Clear and pleasant. Light breeze from E. by N. At sunset mustered at quarters. Fires banked in four boilers. Steam pressure 25 lbs.

(Signed) Charles B. T. Moore
Ensign.

From 8 to Midnight. Clear and pleasant. Light breeze from E. by N. At 9.30 spread fires. At 9.50 shortened and furled sail. At 10.50 got bottom at 2430 fathoms. Temp. at bottom 32°.5. Temp. at 600 fathoms 37°.5.

(Signed) James K. Cogswell
Lieut.

Examined and found to be correct

Asa Walker, Lieut
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, At Sea

Hour.	Knots. Fathoms.		WINDS.			BAROMETER.			TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
			Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. at'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A,M																
1	3	4	W 1/4 N	E by N	2-3		30.10	82	83	82	83	bc	Cum	5	L	All plain sail
2	4	0	"	"	2-3		30.10	82	83	82	83	"	"	3	"	"
3	3	4	"	"	2-3		30.07	81	82	81	83	"	"	7	"	"
4	4	0	"	"	2-3		30.07	81	82	81	83	"	"	5	"	"
5	3	4	"	E	2		30.07	81	82	81	83	"	Cir Cum	4	"	"
6	4	6	"	"	3		30.09	81	83	81	83	"	"	4	"	"
7	4	6	"	"	3		30.10	81	82	81	83	"	"	6	"	"
8	4	0	"	"	2		30.12	81	83	82	83	"	"	8	"	"
9	4	2	"	"	3		30.11	82	84	83	83	"	"	8	"	"
10	4	2	"	"	3		30.11	83	85	84	83	"	"	9	"	"
11	4	4	"	E by N	3		30.12	84	86	84	83	"	"	9	"	"
Noon	4	6	"	"	2		30.12	84	86	84	83	"	"	9	"	"

Distance run by Log since preceding Noon	87 knots	0 fathoms.
Latitude by D. R. at Noon	21 °	52 ' 18 " S.
Longitude by D. R. at Noon	36 °	11 ' 00 " W.
Latitude by Observations at Noon ⊕	21 °	58 ' 40 " S.
Longitude by Chronometer from Forenoon Observations ⊕	36 °	16 ' 15 " W.
Current during the time	knots 3	fms. per hour, setting to the S.W. 1/2 S.
Variation of the Compass by Amplitude ⊕ observed at Sunrise	°	" "
Variation of the Compass by Azimuth ⊕ observed at 8 A.M.	9 °	45 " 00 " W.
Water expended during the preceding 24 hours		350 gallons
Water Condensed during the preceding 24 hours		150 "
Water remaining on hand fit for me at Noon		2100 "
Coal consumed during the preceding 24 hours	1 tons	1210 lbs.
Coal remaining on hand at Noon	95 "	101 "

P,M																
1	1	0	W 1/4 N	NE	2		30.10	84	87	85	83	bc	Cir Cum	8	L	All plain sail
2	2	2	W 12 N	"	2		30.09	84	87	85	83	"	"	8	"	"
3	3	0	"	"	2		30.08	83	86	84	83	"	"	8	"	"
4	2	6	"	ENE	2		30.08	83	86	84	83	"	"	8	"	"
5	3	4	"	"	2		30.08	83	85	83	83	"	"	8	"	"
6	3	0	"	"	2		30.07	82	85	83	83	"	"	8	"	"
7	3	6	"	E by N	2		30.06	82	84	83	83	"	"	8	"	"
8	4	4	"	E	3		30.07	82	84	82	83	"	"	8	"	"
9	5	0	"	"	3		30.09	82	84	82	83	"	"	9	"	"
10	5	2	"	"	3		30.10	82	84	82	83	"	"	9	"	"
11	6	0	"	E by N	3		30.09	82	84	82	83	"	"	9	"	"
Mid.	6	2	"	NE by E	3		30.08	82	84	82	83	"	"	8	"	"

Longitude by Chronometer from Afternoon Observations ⊕	°	'	"
Longitude by Chronometer Observations	°	'	"
Variation of the Compass by Amplitude	°	'	"
Variation of the Compass by	at	°	'

under the command of Commander Winfield Scott Schley, U. S. Navy.
Wednesday February 6th, 1878.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Partially cloudy. Pleasant. Light breeze from E. by N. At 12 made sail and stood off on course. Steam pressure 25 lbs.

(Signed) Clinton K. Curtis
Lieut.

From 4 to 8 A.M. Clear. Warm. Light E[aster]ly breeze. Cir. Cum. clouds. Fires banked in four boilers. Steam pressure 25 lbs.

(Signed) Samuel C. Lemly
Ensign.

From 8 to Merid. Clear. Warm. Light breeze from E. shifting to N. Moderate swell from E. Ship rolling easily. At 9.15 inspected at quarters. Instructed 1st, 2nd and Powder Divisions in gunnery. At 10.30 set spanker and gaff topsail. At 11.25 set jib, flying jib, M. trysail and M. T. M. S. S. Fires banked in four boilers. Steam pressure 25 lbs. Distilling.

(Signed) Charles B. T. Moore
Ensign.

From Merid. to 4 P.M. Clear and warm. Light breeze from N. and E. Long swell from E. Maximum roll to leeward 10°, to windward 8°. One sail in sight standing to S. Fires banked. Distilling.

(Signed) James K. Cogswell
Lieut.

From 4 to 6 P.M. Clear, warm and pleasant. Light breeze from E. N. E. Long swell from E. Ship rolling easily. Exchanged color with a North German barque standing to S. and W. Fires banked. Steam 25 lbs. Distilling.

(Signed) Clinton K. Curtis
Lieut.

From 6 to 8 P.M. Clear. Warm. Light E. by N. breeze. Cir. Cum. clouds. At 6.55 took in M. T. M. S. S. At 7.45 took in jib, flying jib, and M. try sail. Fires banked in four boilers. Steam pressure 25 lbs. Distilling.

(Signed) Samuel C. Lemly
Ensign.

From 8 to Midnight. Clear and pleasant. Light breeze from E, shifting to N. and E. Long swell from N. and E. Ship rolling easily. Moon set at 8.40. Fires banked in four boilers. Steam pressure 25 lbs. Distilling.

(Signed) Charles B. T. Moore
Ensign.

Examined and found to be correct

Asa Walker, Lieut
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, At Sea

Hour.	Knots. Fathoms.		Courses steered.	WINDS.		Leeway.	BAROMETER.		TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
				Direction.	Force.		Height in inches.	Ther. attd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A,M																
1	5	6	W 1/2 N	ENE	4		30.06	81	82	81	84	bc	Cum	9	L	All plain sail
2	3	4	"	"	3		30.05	81	82	81	84	"	"	8	"	except jib and
3			Sounding	"	3		30.04	81	82	81	84	"	"	6	"	flying jib.
4	2	4	W 1/2 N	"	3		30.04	81	82	81	84	bcp	"	5	"	"
5	4	0	"	"	3		30.04	81	83	81	84	bc	"	4	S	"
6	4	6	"	"	3		30.04	81	83	82	84	"	"	5	"	"
7	5	4	"	"	3-4		30.07	81	83	82	84	"	"	7	"	"
8	6	0	"	"	3-4		30.05	81	83	82	84	"	"	5	"	"
9	5	6	"	"	4		30.09	82	83	82	84	"	Cir Cum	7	"	"
10	5	6	"	"	4		30.09	82	83	83	84	"	"	7	"	"
11	5	0	"	N 1/2 E	3		30.08	82	83	83	84	"	"	8	"	All plain sail
Noon	4	4	"	N by E	3		30.07	82	84	84	84	"	"	8	"	except M. sail.

Distance run by Log since preceding Noon 102 knots 6 fathoms.

Latitude by D. R. at Noon 22 ° 08 ' 46 " S.

Longitude by D. R. at Noon 38 ° 06 ' 15 " W.

Latitude by Observations at Noon ⊕ 22 ° 15 ' 22 " S.

Longitude by Chronometer from Forenoon Observations ⊕ 38 ° 04 ' 00 " W.

Current during the time knots 2 fms. per hour, setting to the S. by E. 1/2 E.

Variation of the Compass by Amplitude ⊕ observed at Sunrise ° " "

Variation of the Compass by Azimuth ⊕ observed at 8 A.M. 9 ° 25 " 00 " W.

Water expended during the preceding 24 hours 350 gallons

Water Condensed during the preceding 24 hours 700 "

Water remaining on hand fit for me at Noon 2300 "

Coal consumed during the preceding 24 hours 2 tons 1970 lbs.

Coal remaining on hand at Noon 92 " 371 "

P,M																
1	4	6	W 3/4 N	NNE	3		30.05	83	86	84	84	bc	Cir Cum	6	S	All plain sail
2	5	2	"	"	3		30.04	83	86	84	84	"	"	8	"	except M. sail.
3	5	2	"	NE by N	3		30.03	83	85	83	84	"	"	6	"	"
4	5	0	"	N by E	2		30.02	82	84	83	84	"	"	9	"	"
5	4	4	"	NE by N	3		30.02	82	84	83	84	"	"	9	"	"
6	4	6	"	"	3		30.03	82	84	83	84	"	"	9	"	"
7	2	4	"	"	3		30.05	81	84	83	83	"	"	7	"	"
8			"	"	3		30.07	81	84	83	83	"	"	7	"	"
9	6	4	"	"	4		30.08	82	84	83	83	"	"	7	"	"
10	6	6	"	"	4		30.09	82	83	81	83	"	"	8	"	"
11	7	0	"	"	4		30.09	82	83	80	83	"	"	9	"	"
Mid.	7	0	"	"	4		30.07	82	83	80	83	"	"	8	"	"
Longitude by Chronometer from Afternoon Observations ⊕												°	'	"		
Longitude by Chronometer Observations												°	'	"		
Variation of the Compass by Amplitude observed at Sunset												°	'	"		
Variation of the Compass by at												°	'	"		

under the command of Commander Winfield Scott Schley, U. S. Navy.
Thursday February 7th, 1878.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear and pleasant. Light breeze from N. and E. Swell from E. At 12.50 took in light sails. At 1.45 took in topsails and started ahead under steam. At 1.55 got bottom in 2100 fathoms water, sand and brown mud. Lowest temp. 33°. Temp. at 500 fathoms. 38°.5. At 3.30 made sail to royals and stood off on course. Banked fires.

(Signed) James K. Cogswell
Lieut.

From 4 to 8 A.M. Partially cloudy. Warm. Pleasant. Moderate breeze from E. N. E. Long swell from E. At 6.55 set jib, flying jib, M. T. M. S. S. and M. try sail. Fires banked in four boilers. Steam pressure 25 lbs. Distilling.

(Signed) Clinton K. Curtis
Lieut.

From 8 to Merid. Clear. Warm. Moderate N. E. breeze falling and shifting to N. at end of watch. At 9.15 inspected at quarters. Exercised companies A. and B. at single sticks. Sighted two barkentines standing to E. S. E. Exchanged colors with Italian barkentine. She made signals F. G. H. F. Q. G. V. N. B. W. Q. R. We made F. Q. C. G. W. S. Fires banked in four boilers. Steam pressure 25 lbs. Distilling. At noon changed course to W. 3/4 N.

(Signed) Samuel C. Lemly
Ensign.

From Merid. to 4 P.M. Cloudy. Warm. Gentle breeze from N. and E. At 3.10 sighted a sail to S. Fires banked fires in four boilers. Steam pressure 25 lbs.

(Signed) Charles B. T. Moore
Ensign.

From 4 to 6 P.M. Clear and pleasant. Moderate breeze from N. and E. Ship steady. Started fires at 5.

(Signed) James K. Cogswell
Lieut.

From 6 to 8 P.M. Clear. Pleasant. Moderate breeze from N. and E. At 6.28 shortened and furled sail. At 6.42 got sounding in 1766 fathoms, bottom coarse sand. At 6.50 made sail and stood off on course. Banked fires. Distilling.

(Signed) Clinton K. Curtis
Lieut.

From 8 to Midnight. Clear. Pleasant. Fresh N. E. by N. breeze. Cir. Cum. clouds. At 9.26 moon set. At 11, a very brilliant meteor passed across the western heavens. Fires banked in four boilers. Steam pressure 25 lbs.

(Signed) Samuel C. Lemly
Ensign.

Examined and found to be correct

Asa Walker, Lieut
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, At Sea

			WINDS.			BAROMETER.			TEMPERATURE.			WINDS.			TEMPERATURE.			WINDS.			TEMPERATURE.		
Hour.	Knots.	Fathoms.	Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. at'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.	State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.							
A,M																							
1	7	0	W 3/4 N	NE	4		30.06	82	84	82	84	bc	Cum	9	M	All plain sail							
2	7	0	"	NE by N	4		30.04	82	84	82	84	"	"	9	"	except royals, jib							
3	7	0	"	"	4		30.03	82	84	82	84	"	"	9	"	and gaff topsails.							
4	7	2	"	"	4-7		30.03	82	84	82	84	"	"	8	"	[Editor's note: The following was written in the left margin: Lat. 22° 31 S. Long 40° 00 W.]							
5	8	0	"	"	4		30.01	80	84	80	84	"	"	1	S	"							
6	5	2	"	"	4		30.02	79	83	80	84	"	"	7	"	All plain sail							
7	5	4	"	"	5		30.03	80	83	81	84	"	"	9	"	except M. sail.							
8	3	4	"	"	4-5		30.05	80	83	81	84	"	"	5	"	"							
9	7	0	W 1/2 N	"	3		30.05	81	83	82	84	"	"	7	"	"							
10	5	4	"	N	3		30.05	81	82	81	84	"	"	7	"	"							
11	4	6	"	"	3		30.05	81	83	81	84	"	"	7	"	"							
Noon	5	6	"	N by E	3		30.05	81	83	82	84	"	"	7	"	"							
Distance run by Log since preceding Noon												133 knots		2 fathoms.									
Latitude by D. R. at Noon												22	°	16	'	37	"	S					
Longitude by D. R. at Noon												40	°	28	'	00	"	W.					
Latitude by Observations at Noon ⊕												22	°	34	'	14	"	S.					
Longitude by Chronometer from Forenoon Observations ⊕												40	°	29.	'	00	"	W.					
Current during the time												knots 6		fms. per hour, setting to the		S.							
Variation of the Compass by Amplitude ⊕ observed at Sunrise													°		"		"						
Variation of the Compass by Azimuth ⊕ observed at 8 A.M.												7	°	25	"	00	"	W.					
Water expended during the preceding 24 hours												350 gallons											
Water during the preceding 24 hours												"											
Water remaining on hand fit for me at Noon												2000						"					
Coal consumed during the preceding 24 hours												2	tons	330	lbs.								
Coal remaining on hand at Noon												90	"	41	"								
P,M																							
1	1	0	W 1/2 N	NNE	3		30.03	80	83	82	84	bc	Cir Cum	8	M	All plain sail							
2	2	0	W 1/4 S	"	3		30.01	80	83	82	84	"	"	8	"	except M. sail.							
3	5	4	"	NE	3		30.00	80	83	82	84	"	"	9	"	"							
4	5	4	"	NE by N	3		29.98	80	83	82	84	"	"	8	"	"							
5	4	6	"	NE by E	3		29.96	80	82	81	84	"	"	9	"	"							
6	6	4	"	NNE	4		29.95	79	81	80	84	"	"	9	"	"							
7	7	0	"	E by N	4		29.95	79	81	80	84	"	"	9	S	Except gaff topsail							
8	7	2	"	"	4		29.96	79	81	80	84	"	"	9	"	"							
9	6	2	W 3/4 S	"	4		29.98	79	79	78	84	"	"	9	"	"							
10	5	0	"	"	3-4		29.99	79	79	78	82	"	"	9	"	"							
11	4	0	"	"	3-4		29.99	78	77	76	82	"	"	9	"	"							
Mid.	5	2	"	"	3-4		29.99	78	77	76	82	"	"	9	"	"							
Longitude by Chronometer from Afternoon Observations ⊕													°		'		"						
Longitude by Chronometer Observations													°		'		"						
Variation of the Compass by Amplitude												observed at Sunset			°		'		"				
Variation of the Compass by												at			°		'		"				

under the command of Commander Winfield Scott Schley, U. S. Navy.
Friday February 8th, 1878.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear. Pleasant. Moderate breeze from N. and E. Moderate swell from N. and E. Ship rolling easily. At 1.10 a brilliant meteor passé over from E. to W. through an arc of about 20° and at an altitude of about 15°. At 1.50 took in royals and flying jib. At 3.50 took in gaff topsail. Fires banked in four boilers. Steam pressure 20 lbs.

(Signed) Charles B. T. Moore
Ensign.

From 4 to 8 A.M. Cloudy. Pleasant. Squally first part, with showers of rain. At 5.30 spread fires. At 5.30 spread fires. At 7 took in all sail. At 7.23 got bottom in 6.35 fathoms water, sand. Lowest temperature 38°. At 100 fathoms 66°. At 7.30 made all sail and banked fires. At 8, changed course to W. 1/2 N.

(Signed) James K. Cogswell
Lieut.

From 8 to Merid. Partially cloudy. Pleasant. Moderate breeze from N. and E. Barometer steady. At 9.15 exercised at fire quarters. Time. 1st stream 45 s. 2nd stream 50 s. Engineers stream 1 m 10 s. Secured in 1 m 10 s. By order of Commander the following punishments were assigned. John Bullens (O.S.) 12 hours extra duty for being asleep on lookout, and James V. Marion (O.S.2.C.) 12 hours extra duty for shirking furling sail, during mid watch, and disobeying order of Officer of Forecastle. Fires banked in four boilers. Steam pressure 25 lbs. Watch engaged in scraping and oiling blocks.

(Signed) Clinton K. Curtis
Lieut.

From Merid. to 4 P.M. Clear. Warm. Moderate N. E. breeze. Cir. Cum. clouds. At 12.30 got cast of deep sea lead, no bottom at 120 fathoms. At 12.15 changed course to W. 1/2 S. At 3 spread fires in four boilers.

(Signed) Samuel C. Lemly
Ensign.

From 4 to 6 P.M. Clear. Warm. Moderate breeze from N. and E. At 4.30 got a cast of deep sea lead in 50 fathoms, bottom red and white broken shells. Scraped spars. Getting up and bending lower chains. Fires banked in four boilers. Steam pressure 25 lbs.

(Signed) Charles B. T. Moore
Ensign.

From 6 to 8 P.M. Clear and pleasant. Moderate breeze from N. and E. At 6.30 mustered at quarters. At 7.50 hove to and got a cast in 40 fathoms water, bottom grey sand and shells. Fires banked.

(Signed) James K. Cogswell
Lieut.

From 8 to Midnight. Clear and pleasant. Moderate breeze from E. by N. At 10 braced aback and got cast of lead in 38 fathoms, bottom coarse sand and shells. Fires banked. Steam pressure 25 lbs. Distilling. At 11.55 got a cast of the lead in 37 fathoms, bottom coarse sand and shells.

(Signed) Clinton K. Curtis
Lieut.

Examined and found to be correct

Asa Walker, Lieut
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, At Sea and Rio de Janeiro, Brazil

Hour.			Courses steered.	WINDS.		Leeway.	BAROMETER.		TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.			
	Knots.	Fathoms.		Direction.	Force.		Height in inches.	Ther. at'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.								
A,M																			
1	6	0	W 3/4 N	NE	4		29.97	76	76	76	80	bc	Cir Cum	9	S	All plain sail,			
2	7	0	"	"	4		29.95	74	74	74	75	"	"	9	"	except M. sail			
3	7	2	"	"	4		29.94	73	73	73	70	"	"	9	"	"			
4	4	6	W	"	4		29.94	73	73	73	67	"	"	9	"	"			
	2	2																	
5	7	6	"	"	4		29.95	72	73	73	66	"	"	9	"	"			
6	7	4	"	"	4		29.93	71	72	72	65	"	"	9	"	"			
7	7	4	"	"	4		29.93	72	73	73	69	"	"	9	"	"			
8	5	6	"	"	3		29.94	72	74	74	73	"	None	10	"	"			
9	4	4	W 1/2 N	"	3		29.94	73	75	75	73	"	"	10	"	"			
10	4	4	"	"	3		29.93	75	76	75	73	"	Cum	9	"	"			
11	6	4	WNW	"	3		29.91	77	79	78	74	"	"	9	"	"			
Noon	Standing into Rio de Janeiro			"	3		29.90	79	80	80	76	"	"	9	"	Fore and aft sail.			
Distance run by Log since preceding Noon																			
												knots	fathoms.						
Latitude by D. R. at Noon												°	'	"					
Longitude by D. R. at Noon												°	'	"					
Latitude by Observations at Noon ⊕												°	'	"					
Longitude by Chronometer from Forenoon Observations ⊕												°	'	"					
Current during the time												knots	fms. per hour, setting to the		[Editor's note: The following was written in the left margin: Sg. No. 625]				
Variation of the Compass by Amplitude ⊕ observed at Sunrise												°	"	"					
Variation of the Compass by Azimuth ⊕ observed at												°	"	"					
Water expended during the preceding 24 hours												350 gallons.							
Water Condensed during the preceding 24 hours												400 "							
Water remaining on hand fit for me at Noon												2000 "							
Coal consumed during the preceding 24 hours												2	tons	1530	lbs.				
Coal remaining on hand at Noon												87	"	751	"				
P,M																			
1	Standing into Rio			NE	3		29.89	81	84	83		bc	Cum	9	S				
2	"			S	2		29.89	81	84	83		"	"	9	"				
3	At Anchor			"	2		29.86	85	90	87		"	"	9	"				
4				S by E	2		29.86	85	90	87		"	"	9	"				
5				"	2		29.84	88	89	87		"	"	9	"				
6				"	2		29.84	86	89	87		"	"	9	"				
7				WSW	2		29.85	86	88	85		bcl	Cum Nimb	9	"				
8				"	1		29.86	86	88	85		"	"	9	"				
9				"	1		29.87	86	88	85		"	"	9	"				
10				"	1		29.88	85	87	85		"	"	9	"				
11				E	1		29.88	85	87	85		"	"	9	"				
Mid.				"	1		29.88	84	86	84		"	"	9	"				
Longitude by Chronometer from Afternoon Observations ⊕												°	'	"					
Longitude by Chronometer Observations												°	'	"					
Variation of the Compass by Amplitude												observed at Sunset		°	'	"			
Variation of the Compass by												at		°	'	"			

under the command of Commander Winfield Scott Schley, U. S. Navy.
Saturday February 9th, 1878.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear. Cool. Damp. moderate N. E. breeze. Cir. Cum. clouds. At 12.20 sighted Cape Frio Light ahead (pc) W. 3/4 S. At end of watch Cape Frio Light bore (pc) N. N. E. 1/2 E. At 3.40 changed course to W. Fires banked in four boilers. Steam pressure 25 lbs. Distilling.

(Signed) Samuel C. Lemly
Ensign.

From 4 to 8 A.M. Clear. Cool. Pleasant. Misty around horizon. Moderate breeze from N. E. Sighted three sail during watch. Fires banked in four boilers. Steam pressure 25 lbs. Distilling. Standing along the coast of Brazil.

(Signed) Charles B. T. Moore
Ensign.

From 8 to Merid. Clear and Warm. Misty around horizon. Moderate breeze from N. E. Standing into Rio under steam. At 8.30 changed course to W. 1/2 N. At 10, started under steam, shortened and furled sail, made preparations for port. Passed several steamers and sail, standing to N.

(Signed) James K. Cogswell
Lieut.

From Merid. to 4 P.M. Clear and warm. Light breeze from S. First part of watch standing in for Rio harbor. At 12.35 took in jib and spanker. At 1.50 called "bring ship to anchor". At 2.25 came to with port anchor in 15 fathoms water swung to 45 fathoms port chain. Villegagnon bore (pc) S. W. 3/4 S. Fort St Cruz S. S. E. 1/4 E. and Fort de Gravata E. 1/2 N. Draught forward 13 feet 10 in. Amidships 14 feet 10 in. Aft 15 feet 11 in. Hauled fires in the two port forward boilers and banked fires in the two starboard after boilers. Commenced distilling at 3.

(Signed) Clinton K. Curtis
Lieut.

From 4 to 6 P.M. Clear. Warm. Light S[outher]ly breeze. Cir. Cum. clouds. Fires banked in two boilers. Steam pressure 25 lbs. Distilling.

(Signed) Samuel C. Lemly
Ensign.

From 6 to 8 P.M. Clear. Warm. Light breeze from S. and W. Lightening to N. and W. Misty. Fires banked in two boilers. Steam pressure 25 lbs. Distilling.

(Signed) Charles B. T. Moore
Ensign.

From 8 to Midnight. Clear and pleasant. Warm. Light airs from S. and W. first part, from E. latter part of watch. Fires banked in two boilers. Distilling.

(Signed) James K. Cogswell
Lieut.

Moon Phase 1st Quarter, Dec. S. 20°

Examined and found to be correct

Asa Walker, Lieut
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Rio de Janeiro, Brazil

Hour.	Knots.	Fathoms.	WINDS.		BAROMETER.		TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
			Direction.	Force.	Leeway.	Height in inches.	Ther. at'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.			
A,M													
1			East	1		29.88	82	85	83	bc	Cum	9	S
2			Calm	0		29.87	82	85	83	"	"	9	"
3			"	0		29.87	82	85	83	"	"	9	"
4			"	0		29.87	82	85	83	"	"	9	"
5			Variable	1		29.88	83	84	83	"	Cir Cum	9	"
6			"	1		29.88	83	84	83	"	"	9	"
7			"	1		29.89	83	84	83	"	"	9	"
8			"	1		29.90	83	84	83	"	"	9	"
9			NNW	1		29.90	84	86	84	bcz	"	9	"
10			"	1		29.90	85	87	86	"	"	9	"
11			Calm	0		29.89	85	88	86	"	"	8	"
Noon			S by W	1		29.88	86	89	87	"	"	9	"

Record of the sail the vessel is under at end of watch.

Distance run by Log since preceding Noon

knots fathoms.

Latitude by D. R. at Noon

° ' "

Longitude by D. R. at Noon

° ' "

Latitude by Observations at Noon ⊕

° ' "

Longitude by Chronometer from Forenoon Observations ⊕

° ' "

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊕ observed at Sunrise

° " "

Variation of the Compass by Azimuth ⊕ observed at

° " "

Water expended during the preceding 24 hours

300 gallons.

Water Condensed during the preceding 24 hours

700 "

Water remaining on hand fit for me at Noon

2400 "

Coal consumed during the preceding 24 hours

1 tons 1070 lbs.

Coal remaining on hand at Noon

85 " 1921 "

[Editor's note: The following was written in the left margin: Sg. No. 625]

P,M

1			South	1		29.86	86	89	86	bcz	Cir Cum	8	S
2			SE	2-3		29.84	85	88	85	"	"	8	"
3			E by S	3-4		29.83	85	88	85	"	"	8	"
4			SE	3-4		29.82	86	90	86	"	"	8	"
5			S	1-2		29.82	85	90	86	"	"	8	"
6			"	1-2		29.82	85	91	86	"	"	8	"
7			S by W	3		29.83	87	89	86	"	"	8	"
8			SE	3		29.84	86	88	86	"	"	8	"
9			"	1		29.86	85	87	85	"	Cum	9	"
10			E	2		29.87	85	87	85	"	"	9	"
11			NNE	1		29.88	85	87	85	bclz	"	9	"
Mid.			NW	1		29.87	85	87	85	"	"	9	"

Longitude by Chronometer from Afternoon Observations ⊕

° ' "

Longitude by Chronometer Observations

° ' "

Variation of the Compass by Amplitude observed at Sunset

° ' "

Variation of the Compass by at

° ' "

under the command of Commander Winfield Scott Schley, U. S. Navy.
Sunday February 10th, 1878.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear and warm. Light airs from E. first hour, calm remainder of watch. Barometer steady. Fires banked in two boilers. Steam pressure 25 lbs. Distilling.

(Signed) Clinton K. Curtis
Lieut.

From 4 to 8 A.M. Clear. Warm. Light variable airs. Cir. Cum. clouds. A small Brazilian steamer came in and anchored. Fires banked in two boilers. Steam pressure 25 lbs. Distilling.

(Signed) Samuel C. Lemly
Ensign.

From 8 to Merid. Clear. Warm. Light variable airs and calm. Hazy. Ebb tide. At 9.30 Commander inspected ship and crew at quarters. Afterwards called all hands to muster and read General Order No. 1 of South Atlantic Station. Commander said that he would now, having reached the station on which the ship was to serve, start the men with a clean balance and therefore he released all men from the quarantine and all names were erased from the extra duty list. By order of Commander, James Brown (C.F.C.) was released from confinement. Irvin Winbush was excluded from the general release. Prayers were read. Fires banked in two boilers. Steam pressure 25 lbs. Distilling.

(Signed) Charles B. T. Moore
Ensign.

From Merid. to 4 P.M. Clear. Warm. Ebb tide. Moderate breeze blowing from E. to S. E. Riding across the tide.

(Signed) James K. Cogswell
Lieut.

From 4 to 6 P.M. Clear and warm. Light breeze from S. Ship riding to flood.

(Signed) Clinton K. Curtis
Lieut.

From 6 to 8 P.M. Clear. Hazy. Gentle breeze from S. by W, shifting to S. E. Cir. Cum. clouds. Riding to flood. Fires banked in two boilers. Steam pressure 25 lbs. Distilling.

(Signed) Samuel C. Lemly
Ensign.

From 8 to Midnight. Clear and pleasant. Hazy. Light sea breeze first hour. Land breeze after 9.30. Got around to ebb at 9. Lightening to N. and W.

(Signed) Charles B. T. Moore
Ensign.

Moon Phase, 1st Quarter, Dec. 23° S.

Examined and found to be correct

Asa Walker, Lieut
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Rio de Janeiro, Brazil

Hour.	WINDS.					BAROMETER.		TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	
	Knots.	Fathoms.	Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. at'd.	Air Dry Bulb.	Air Wet Bulb.					Water at surface.
A,M															
1			NW	NE	1		29.86	83	86	83		bc	Cum	9	S
2			N	"	1		29.85	83	85	83		"	"	9	"
3			"	"	1		29.82	83	85	83		B	"	10	"
4			"	Calm	0		29.83	82	84	83		"	"	10	"
5	Ebb tide	NNW	"	"	0		29.82	82	84	82		"	"	10	"
6		Heaving up		NNW	0-1		29.83	82	84	83		"	"	10	"
7		Underway		"	0-1		29.85	82	85	83		"	"	10	"
8	Ebb tide	N	"	"	0-1		29.85	83	85	83		"	"	10	"
9	T. 3 K	"	N	2			29.89	84	87	85		"	"	10	"
10		"	"	"	1-2		29.88	84	87	85		"	"	10	"
11		NNW	SE	3			29.87	84	87	85		bc	Cir Cum	9	"
Noon	Slack	NE	"	3			29.85	84	87	85		"	"	9	"

Record of the sail the vessel is under at end of watch.

Distance run by Log since preceding Noon	knots	fathoms.
Latitude by D. R. at Noon	0	"
Longitude by D. R. at Noon	0	"
Latitude by Observations at Noon ⊕	0	"
Longitude by Chronometer from Forenoon Observations ⊕	0	"
Current during the time	knots	fms. per hour, setting to the
Variation of the Compass by Amplitude ⊕ observed at Sunrise	0	"
Variation of the Compass by Azimuth ⊕ observed at	0	"
Water expended during the preceding 24 hours		300 gallons.
Water during the preceding 24 hours		"
Water remaining on hand fit for me at Noon		2100 "
Coal consumed during the preceding 24 hours	2 tons	270 lbs.
Coal remaining on hand at Noon	123 "	1651 "

[Editor's note: The following was written in the left margin: Sg. No. 625]

P,M														
1	Flood		S by E	S by E	2		29.82	84	87	84	bc	Cir Cum	9	S
2			SE by E	S	3		29.81	84	87	84	"	"	9	"
3			S	"	3		29.80	85	88	85	"	"	9	"
4			SSW	S by W	2		29.78	86	89	85	"	"	8	"
5			SE by S	SE by S	2		29.78	86	89	85	"	"	8	"
6			SE	SSE	2		29.78	86	88	85	"	"	8	"
7	Tide		S	WSW	1-2		29.80	86	86	86	"	"	8	"
8			SSE	SSE	1-2		29.81	84	86	83	"	"	9	"
9	Slack 8.25		NNW	W	2		29.83	84	85	83	bcm	"	7	"
10	Ebb 8.50		"	SSE	2		29.85	83	85	83	"	"	6	"
11			"	NNW	2		29.84	84	87	84	"	"	9	"
Mid.			"	"	2		29.83	85	87	85	"	"	9	"

Longitude by Chronometer from Afternoon Observations ⊕	0	"
Longitude by Chronometer Observations	0	"
Variation of the Compass by Amplitude	0	"
Variation of the Compass by	0	"

under the command of Commander Winfield Scott Schley, U. S. Navy.
Monday February 11th, 1878.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear and pleasant. Light airs from N. E. first part, calm latter part of watch. Riding to ebb. At 1 started fires in two boilers.

(Signed) James K. Cogswell
Lieut.

From 4 to 8 A.M. Clear and warm. Calm and light airs from N. N. W. Made preparations for getting underway. At 6 a coal lighter came alongside. At 6.15 called "up anchor", hove up and shifted berth. Came to with port anchor, at 7, in 8 1/4 fathoms water, veering to 30 fathoms at waters edge. Bearings at anchor. Fort Lage (pc) S. 3/8 E. Fort Boa Viagen (pc) N. E. 1/2 E. Fort St Cruz S. E. 1/4 E. Ship draught forward 13 feet 10 in. Amidships 14 feet 11 in. Aft 15 feet 11 in. Engaged in coaling ship. Ebb tide. Fires banked.

(Signed) Clinton K. Curtis
Lieut.

From 8 to Merid. Clear. Warm. Light and gentle N[ortherly] breeze first part, and moderate S. E[asterly] breeze latter part of watch. Made sea breeze 10.45. A survey was held on stores in Construction Department. Board consisting of Ensigns S. C. Lemly, C. B. T. Moore and Carpenter W. W. Richardson. Engaged in coaling ship. Logged tide .3 knots. Fires banked in four boilers. Steam pressure 20 lbs.

.(Signed) Samuel C. Lemly
Ensign.

From Merid. to 4 P.M. Clear. Warm. Light to gentle sea breeze from S. Got around to flood at 1. Finished coaling ship. Received 40 tons of coal. Fires banked in four boilers. Steam pressure 20 lbs.

(Signed) Charles B. T. Moore
Ensign.

From 4 to 6 P.M. Clear and warm. Light breeze from S. and E. Hazy around the horizon. Fires banked in four boilers.

(Signed) James K. Cogswell
Lieut.

From 6 to 8 P.M. Clear and warm. Light breeze from W. S. W, shifting to S. S. E. Ship riding to flood. Fires banked in four boilers. Steam pressure 25 lbs.

(Signed) Clinton K. Curtis
Lieut.

From 8 to Midnight. Clear. Misty. Gentle sea breeze. Cir. Cum. clouds. Bright moonlight. At 11 hove log, current about 1 knot. Fires banked in four boilers. Steam pressure 25 lbs. Distilling.

(Signed) Samuel C. Lemly
Ensign

Moon Phase 2nd Quarter, Dec. 26° S.

Examined and found to be correct

Asa Walker, Lieut
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Rio de Janeiro, Brazil, and at Sea

Hour.	Knots. Fathoms.	Courses steered.	WINDS.		Barometer.	TEMPERATURE.				State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
			Direction.	Force.		Height in inches.	Ther. at'd.	Air Dry Bulb.	Air Wet Bulb.				
A.M.													
1	Ebb	NE by E	E by N	1	29.81	85	86	85		bz	None	10	S
2		NE by N	ENE	1	29.82	84	86	85		bcz	Cum	9	"
3	3	N by W	N	1	29.83	84	86	85		"	"	9	"
4		"	NNE	2	29.83	84	86	84		bc	"	9	"
5		"	NE by E	2	29.83	83	85	82		"	"	9	"
6		N	ENE	1	29.82	82	84	82		bcz	"	9	"
7		"	NE	1	29.84	82	84	82		"	"	9	"
8		"	N	1	29.85	83	85	84		"	"	9	"
9		"	"	1	29.86	85	89	84		"	"	9	"
10		NW	"	2	29.86	86	91	87		"	"	8	"
11	Tide 3	"	"	2	29.86	87	91	87		"	Cir Cum	8	"
Noon		"	"	2	29.85	89	92	88		"	"	8	"

Record of the sail the vessel is
under at end of watch.

Distance run by Log since preceding Noon

knots fathoms.

Latitude by D. R. at Noon

° ' "

Longitude by D. R. at Noon

° ' "

Latitude by Observations at Noon ⊕

° ' "

Longitude by Chronometer from Forenoon Observations ⊕

° ' "

Current during the
time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊕ observed at Sunrise

° " "

Variation of the Compass by Azimuth ⊕ observed at

° " "

Water expended during the preceding 24 hours

300 gallons.

Water Condensed during the preceding 24 hours

350 "

Water remaining on hand fit for me at Noon

2100 "

Coal consumed during the preceding 24 hours

3 tons 731 lbs.

Coal remaining on hand at Noon

120 " 920 "

[Editor's note: The following was written
in the left margin: Sg. No. 625]

P.M. tenths

1	Commen ced to swing to flood at 12.40	NW by N	SE	1-2	29.85	89	92	89		bcz	Cir Cum Nimb	9	S
2		W	"	3	29.84	87	90	87		"	"	6	"
3		"	"	3	29.83	84	88	86		"	"	5	"
4		WNW	SW	1-2	29.84	85	88	85		"	"	5	"
5		NNW	NW	2-4	29.85	85	87	84		"	Cir Cum Nimb	5	"
6		N by W	"	1	29.85	85	87	84		"	"	4	"
7	Standing out of Rio	SW	SW	1	29.85	84	85	82	78	"	"	4	"
8	2 0	SW 1/4 S	"	3	29.86	80	85	80	78	"	"	2	"
9	6 4	"	"	1-0	29.89	79	81	79	78	"	"	3	"
10	6 4	"	"	1-2	29.91	79	81	79	77	"	"	2	"
11	6 6	"	W by S	3	29.91	79	82	80	77	oz	Cum Nimb	0	"
Mid.	6 2	"	WSW	3	29.91	79	81	80	77	"	"	0	"

Steaming

Longitude by Chronometer from Afternoon Observations ⊕

° ' "

Longitude by Chronometer Observations

° ' "

Variation of the Compass by Amplitude observed at Sunset

° ' "

Variation of the Compass by at

° ' "

under the command of Commander Winfield Scott Schley, U. S. Navy.
Tuesday February 12th, 1878.

[Editor's note: The following note was attached to the logbook entry for February 12, 1878.]

Medical Department

Acid Carbol. imp. 5 lbs.	Sapores Liniment 2 lbs.
Acid Sulph. as. 4 oz.	Sodas Bicarb 1lb.
Aether 2 lbs.	Pencils hair 6.
Alumen 1/2 lbs.	Pine 1/4 lbs.
Argentia Nitras fya[?] 2 oz.	Plaster Adhesive 5 yds.
Bisumultu Sutcast, 2 oz.	Muslin 43 1/4 yds.
Copaiba 2 lbs.	Measure glass 1 oz. 1.
Glycerlujar ext. 4 lbs.	Measure glass 1 dram, 1.
Olivae Oleum 4 pts.	Spatuals 5 in. 1.
Pilular carth. comp. 1 oz.	Ink, black, 1 bottle.
Patass Bicarb 1/2 lb.	Envelopes, Official, 50.
Patass et Sod. Tart, 4 lbs.	" , small, 50.

[Editors note: Between the two columns was the note: "Letter paper 1/2 reams"]

Paymaster Department

12 Bbls Beef.	48 Cotton Handkerchiefs.
16 " Pork.	1 Box Blacking.
20 Boxes Canned Beef.	200 Spools Cotton.
15 " Soap.	600 " Silk.
10 " Tobacco.	4 Packages Pearl Buttons.
12 " Candles.	2 Bbls Butter.
4 Bbls Coffee.	4 " Vinegar (1/2 full).
12 " Beans.	2 Cases Apples.
11 " Flour.	9 Kegs Pickles.
2 " Rice	4 " Molasses.
4 Cases Shoes.	12 1/4 Boxes Tea.
2 Boxes Pepper	
96 Fine Combs.	
10 Mus Kettles.	
12 " Pans.	

[The February 12 note, continued]

Stores in Construction Department.

6 Panes Glass.	25 gall. Linseed oil.
1 Glazier Diamored.	25 " Turpentine.
3 Claw Hammered	3 " Japan Dryer.
110 lbs Sheet Lead.	50 lbs Litharge
3 Large Padlocks. Brass	29 Assorted Files.
30 Sheets Sand Paper.	2 lbs. Copper Tacks.
3 bls Sheet Brass.	1 lbs. Iron "
25 Kegs White Lead.	3 gross Iron Screw.
12 " Zinc.	1 " Brass "
16 Files.	10 lbs Copper Nails Asstd.
18 Kegs Black Paint.	70 lbs Cut Iron Nails.
1 lb Vermilion.	15 Pain Brushes.
1 lb Prussian Blue	3 Pair Brass Hinges
80 lbs Chrome Green.	2 Varnish Brushes.
5 lbs " Yellow.	1 Oil Stone.

Equipment Department.

16 Coils Manilla Rope	10 lbs Cotton Twine
2 " Hemp "	12 lbs Flax "
4 Bbls Lines.	

Engineers Department.

60 lbs Tucks Packing.	3 Dust Brushes.
25 lbs Sheet Rubber 1/8.	15 British Brick.
25 lbs " " 1/16	390 lbs Cotton Waste.
40 Fire Bricks.	2 gals. Japan Dryer.
6 Hickory Brooms.	20 lbs. Black Lead.
75 lbs. S. W. Soap.	12 Scrubbing Brushes.
12 Scoop Shovels.	12 Files.
485 gas. Oil.	100 lbs White Lead and 2 Bbls Lines.

under the command of Commander Winfield Scott Schley, U. S. Navy.
Tuesday February 12th, 1878.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear and pleasant. Hazy. Land breeze. Light variable airs. Moon set at 12.15. Fires banked in four boilers. Steam pressure 25 lbs. Distilling. Riding to ebb tide.

(Signed) Charles B. T. Moore
Ensign.

From 4 to 8 A.M. Weather hazy. Warm. Gentle breeze from N. N. E. Riding to ebb tide. A tide rip across the bay and working to the N. passed at 5. At 7 commenced to swing to flood, swung half around and then back to N. Received one load of wood in Equipment Dept.

(Signed) Clinton K. Curtis
Lieut.

From 8 to Merid. Clear. Warm. Light breeze from N. Ship riding to the ebb tide. Received in Pay Dept, 65 bags of bread. Fires banked in four boilers. Steam pressure 25 lbs. Distilling.

(Signed) Clinton K. Curtis
Lieut.

From Merid. to 4 P.M. Clear. Warm. Light S. E. breeze, dying out and shifting to S. W. Cir. Cum. Nimb. clouds. At 12.40 commenced to swing to flood, swung partially and then back to N. N. W. Received in Construction, Equipment, Navigators Medical and Engineer's Departments, also Paymasters, stores as per appended lists. Fires banked in four boilers. Steam pressure 25 lbs. Distilling.

(Signed) Samuel C. Lemly
Ensign.

From 4 to 6 P.M. Partially cloudy. Warm. Moderate breeze first hour, dying out to light airs from N. W. Hazy. Making preparations for sea. Spread fires at 5.25. Brough[t] to chain and hove short at 5.50. Fires in four boiler. Ebb tide.

(Signed) Charles B. T. Moore
Ensign.

From 6 to 8 P.M. Cloudy and pleasant. Gentle breeze from S. W. At 6 got underway and stood out of Rio de Janeiro harbor with steam in four boilers. At 7.40 took departure. Paza Island Light bore (pc) W. distant one mile. Put ship on her course S. W. 1/4 S. A green light in sight on starboard bow at end of watch. Draught forward 14 feet. Amidships 15 feet. Aft 16 feet.

(Signed) James K. Cogswell
Lieut.

From 8 to Midnight. Clear. Pleasant. Gentle breeze from W.S.W. Hydrometer 25. Steaming with four boilers. Steam pressure 50 lbs. Revolutions 42.

(Signed) Clinton K. Curtis
Lieut.

Moon Phase, 2nd Qr, Dec. N 28°

Examined and found to be correct

Asa Walker, Lieut
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, On Passage from Rio de Janeiro to Santos.

Hour.			WINDS.			BAROMETER.		TEMPERATURE.				State of the Weather by symbols.		Forms of Clouds, by symbols.		Prop. of Clear Sky, in 10ths.		State of the Sea.		Record of the sail the vessel is under at end of watch.											
			Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. atfd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.																				
Knots	Fathoms.	Tenths																													
A.M.																															
1	4	0	SW 1/4 W	North	0-1		29.88	80	82	80	77	bcl	Cir Cum Nimb	3	S																
2	2	0	"	"	0-1		29.87	80	82	80	78	"	"	3	"																
3	3	0	"	ENE	2-3		29.87	78	80	78	78	bc	"	4	"																
4	3	7	"	"	2-3		29.85	78	80	78	78	"	"	4	"							All plain sail									
5	3	5	"	"	3		29.85	78	80	78	80	"	"	5	"							except M. sail.									
6	3	7	"	E by N	3		29.86	78	80	78	81	"	"	5	"							and F. T. M. S. S.									
7	3	1	"	ENE	2		29.87	78	80	78	81	"	"	5	"																
8	2	5	"	"	2		29.89	79	81	79	81	"	"	5	"																
9	1	6	"	NE	2		29.92	81	82	81	81	"	Cir Str	6	"																
10	1	0	"	"	1		29.94	81	83	82	82	"	"	7	"																
11	1	0	"	"	1		29.93	81	83	82	82	"	"	7	"					With Mainsail.											
Noon		4	"	"	1		29.93	82	84	83	82	"	"	7	"																
Distance run by Log since preceding Noon												55 knots		1 fathoms. tenths																	
Latitude by D. R. at Noon												South 23 °		48		36															
Longitude by D. R. at Noon												West 43 °		46		12															
Latitude by Observations at Noon ⊕												South 23 °		57		00															
Longitude by Chronometer from Forenoon Observations ⊕												West 43 °		59		00															
Current during the time			0 knots 5 tenths		fms. per hour, setting to the		S. W. by W.																								
Variation of the Compass by Amplitude ⊕ observed at Sunrise												°		"		"		[Note on left margin reads "Sig No 625"]													
Variation of the Compass by Azimuth ⊕ observed at 8 AM (Lat 23° 53' N. Long 43° 56' W.)												W. 3° °		10'		"															
Water expended during the preceding 24 hours																						300 gallons.									
Water Condensed			during the preceding 24 hours																				400		"						
Water remaining on hand fit for me at Noon																						2200 "									
Coal consumed during the preceding 24 hours												1		tons		2110		lbs.													
Coal remaining on hand at Noon												118		"		1050		"													
P.M.																															
Tenths																															
1	1		W 3/4 S	South	1-2		29.93	82	86	83	83	bc	Cir Str	4	S					All plain sail and											
2	2	6	"	"	2		29.91	81	84	82	83	"	"	3	"					F.T.M.S.S.											
3	2	8	"	S by E	2		29.90	81	84	82	83	"	"	2	"																
4	2	9	"	"	2		29.90	81	83	81	83	"	"	2	"																
5	2	6	"	ESE	2		29.90	81	83	81	83	"	Cir Cum Str	4	"					Reefed Mainsail.											
6	2	6	"	"	2		29.90	81	83	81	83	"	"	4	"					spanker and gaff											
7	1	8	"	E	2		29.92	81	83	81	83	"	"	2	"					topsail.											
8	2	1	"	"	2		29.94	81	83	81	83	bcl	Cum Nimb Str	1	"																
9	3	3	W 1/2 S	ENE	3		29.96	81	83	81	83	ol	"	0	"					All plain sail											
10	3	6	"	N	3		29.98	81	83	81	83	"	"	0	"					except M. sail.											
11	2	0	"	"	2		29.94	81	83	81	83	bc	Cir Cum	4	"					with spanker											
Mid.	2	3	"	NE	3		29.93	81	83	81	83	"	"	5	"					and jib.											
[Editor's Note: The left margin contains the following notation: Lat 24° 1' S. Long 44° 20' W.]																															
Longitude by Chronometer from Afternoon Observations ⊕												°		'		"															
Longitude by Chronometer Observations												°		'		"															
Variation of the Compass by Amplitude												observed at Sunset										°		'		"					
Variation of the Compass by												at										°		'		"					

under the command of Commander Winfield Scott Schley, U. S. Navy.
Wednesday February 13th, 1878.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Partially cloudy. Light airs from N. first part. Light breeze from E.N.E. latter part of watch. At 12.30 made all sail except gaff topsail and F.T.M.S.S. At 12.20 banked fires in two boilers and allowed fires to die out in two. Uncoupled propeller. At 2.30 set gaff topsail. At 2.45 wind shifting, took in M. trysail, spanker and gaff topsail. At 3 set gaff topsail and spanker. Fires banked in two boilers. Steam pressure 25 lbs. Hydrometer 25. Distilling.

(Signed) Samuel C. Lemly
Ensign.

From 4 to 8 A.M. Cloudy. Pleasant. Gentle breeze from E. N. E. first part, decreasing to light breeze latter part. Moderate swell from E. Ship rolling easily. Got up and bent mainsail. Hydrometer at 8.25. Fires banked in two boilers. Steam pressure 25 lbs. Distilling. Passed through several tide pipe. Lowered smoke stack.

(Signed) Charles B. T. Moore
Ensign.

From 8 to Merid. Cloudy and warm. Hazy. Light breeze from N. Steered course S. W. 1/4 W. until 12 when breeze became light and variable shifting to the S. Hauled up courses and braced up on the port tack. Sea smooth. Light swell setting to the S. W. Density of sea water 25 at 10. At end of watch close hauled on port tack heading W. S. W. One sail in sight. At 10 set M. sail reefed. Distilling. Land in sight on starboard beam.

(Signed) James K. Cogswell
Lieut.

From Merid. to 4 P.M. Cloudy warm and pleasant. Light breeze from S. and S. by E. Barometer falling slowly. Hydrometer at 3.25. At 12.15 changed course to W. 3/4 S. At 12.45 set F. T. M. S. S. M. sail, spanker and gaff topsail. Fires banked in two boilers. Steam pressure 25 lbs. Distilling. Land in sight at end of watch.

(Signed) Clinton K. Curtis
Lieut.

From 4 to 6 P.M. Partially clear. Warm. Gentle E. S. E. breeze. Cir. Cum. Str. clouds. At 5.45 stopped distiller. Allowing steam to run down. Took Hydrometer at 6, stood 25. Fires banked in two boilers. Two sail in sight at end of watch, one 2 pts abaft stbd. beam, the other 2 pts on port bow.

(Signed) Samuel C. Lemly
Ensign.

From 6 to 8 P.M. Cloudy. Pleasant. Warm. Light breeze from E. Sea smooth. Lightening to N. E. At 7.40 squared away. Took in M. sail, spanker and gaff topsail. At sunset mustered at quarters. Fires banked in two boilers. Hydrometer 25.

(Signed) Charles B. T. Moore
Ensign.

From 8 to Midnight. Clear and pleasant. Wind moderate, freshening at times, blowing from N. to N. E. Land breeze began to make at 8.30. Lightening in horizon to the N. first t[w]o hours of watch, cleared up at 10. At 8 changed course to W. 1/2 S. Sea smooth. Fires banked in two boilers. Density of sea water 25.

(Signed) James K. Cogswell
Lieut.

Examined and found to be correct

Moon Phase, 2nd Quarter, Dec. N. 27°

Asa Walker, Lieut
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, On Passage from Rio de Janeiro to Santos Brazil.

Hour.	Knots. Tenths Fathoms.		WINDS.			BAROMETER.		TEMPERATURE.			State of the Weath- er by symbol s.	Forms of Clouds, by symbols.	Prop. of Clear Sky in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
			Courses steered.	Direction.	Force.	Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A,M															
1	4	0	W 1/2 S	NE by N	3	29.90	81	83	80	83	bz	Cum	9	S	All plain sail
2	4	4	"	"	3	29.88	81	83	80	83	"	"	8	"	single reefed M. sail.
3	4	4	"	"	3	29.88	81	84	82	83	"	Cum Nimb	8	"	
4	3	0	"	"	3	29.88	81	84	82	83	"	"	8	"	
5	3	6	"	E by N	3	29.90	81	84	83	83	"	"	8	"	
6	4	0	"	"	3	29.93	82	84	83	84	"	Cir Cum Nimb	8	"	Except F. T. M. S. S.
7	3	0	W 1/4 S	"	3	29.95	82	84	83	85	"	"	8	"	
8	3 1	0	w 1/2 s	"	3	29.96	82	85	83	85	"	"	9	"	
9	4	4	"	ENE	3	29.96	83	86	84	85	"	Cir Cum	6	"	
10	4	6	W by N	E by N	3	29.96	84	86	85	85	"	"	5	"	
11	2 1	8 5	w by n 1/2 n	"	2	29.95	85	88	86	86	"	"	6	"	
Noon	2	8	"	E	2	29.95	86	89	88	87	"	"	6	"	

[Editors Note: A notation in the left margin reads: "Lat 24° 13' S. Long 45° 00' W.]"

Distance run by Log since preceding Noon	75 knots	9 Tenths fathoms.	
Latitude by D. R. at Noon	South 24 °	04 ' 18 "	
Longitude by D. R. at Noon	West 45 °	21 ' 00 "	
Latitude by Observations at Noon ⊕	South 24 °	15 ' 40 "	
Longitude by Chronometer from Forenoon Observations ⊕	West 45 °	45 ' 15 "	
Current during the time	0.5 knots	fms. per hour, setting to the	S. W. by S. [Note on left margin reads "Sig No 624"]
Variation of the Compass by Amplitude ⊕ observed at Sunrise		°	" "
Variation of the Compass by Azimuth ⊕ observed at 8 A.M. (Lat 25° 15' S. Long 45° 13' W)	W 2 °	34 "	" "
Water expended during the preceding 24 hours		250 gallons.	
Water Condensed during the preceding 24 hours		350 "	
Water remaining on hand fit for me at Noon		2400 "	
Coal consumed during the preceding 24 hours	2 tons	1460 lbs.	
Coal remaining on hand at Noon	115 "	1830 "	

P,M	tenths														
1	2	0	WNW 1/2 W	E	2	29.94	86	90	88	87	bcz	Cir Cum	8	S	All plain sail
2	2	5	"	ESE	3	29.93	85	89	88	87	"	"	8	"	Mainsail furled
3	3	5	"	SE	4	29.91	84	88	87	87	"	"	8	"	
4	5	4	"	"	3	29.92	84	88	87	87	"	"	8	"	
5	6	4	"	"	2-3	29.92	85	92	88	88	"	"	8	"	
6	6	6	"	"	2-3	29.94	86	91	89	88	"	"	8	"	
7	1 4	6 6	wnw 3/4 w	"	2	29.92	85	90	89	88	"	Cum Nimb	8	"	
8	6	0	W by N	NW	3	29.92	85	90	84	88	"	"	9	"	Steaming four boilers
9	0 5	5 5	w by n 1/2 n	"	2	29.95	85	88	84	88	bclz	"	9	"	
10			Steaming into Santos	NNW	1	29.97	84	86	84	88	bc	Cum	9	"	
11	At anchor		SSE	NE	1	29.97	84	86	84		bcz	Cir Cum	9	"	
Mid.	Flood		SSW	"	1	29.97	84	86	84		"	"	9	"	

Longitude by Chronometer from Afternoon Observations ⊕	°	'	"
Longitude by Chronometer Observations	°	'	"
Variation of the Compass by Amplitude	°	'	"
Variation of the Compass by	°	'	"

under the command of Commander Winfield Scott Schley, U. S. Navy.
Thursday February 14th, 1878.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear and pleasant. Gentle breeze fro N. E. by N. Bright moonlight first two hours. Moon set at 2. Fires banked in two boilers. Steam pressure 25 lbs. Density of seawater 25 at 2.

(Signed) Clinton K. Curtis
Lieut.

From 4 to 8 A.M. Clear. Warm. Light E[aster]ly breeze. Cir. Cum. Nimb. clouds. At 6 changed course to W 1/4 S. At 7.30 set spanker, gaff topsail and F. jib. At 7.45 changed course to W. 1/2 N. Hydrometer 25. At 6.30 started distiller. Fires banked in two boilers. Steam pressure 25 lbs. Distilling.

(Signed) Samuel C. Lemly
Ensign.

From 8 to Merid. Partially cloudy. Warm. Gentle breeze, dying out to light breeze, varying from E. to E. N. E. Sea smooth. At 9 changed course to W. by N. At 9.15 inspected at quarters. At 10.50 changed course to W. by N. 1/2 N. Fires banked in two boilers. Steam pressure 25 lbs. Distilling. Density of sea water 25.

(Signed) Charles B. T. Moore
Ensign.

From Merid. to 4 P.M. Clear and warm. Hazy. Wind varying from a light to a moderate breeze. Sea smooth. Long swell from E. Exchanged colors with a Brazilian brig. Two sail in sight. At 3.25 started steam in four boilers. Course W. N. W. 1/2 W. Density of sea water 25. At 1 furled mainsail. Highest point of of [sic] Alcatray Island bore N. at 4 P.M.

(Signed) James K. Cogswell
Lieut.

From 4 to 6 P.M. Clear and warm. Gentle breeze from S. E. Barometer rising. Density of sea water 24. At 5.25 took in and furled royals and topgallant sail. Also flying jib and foresail. At 5.30 took in furled topsails and hauled down jib. Steaming with four boilers.

(Signed) Clinton K. Curtis
Lieut.

From 6 to 8 P.M. Clear. Warm. Gentle breeze from S. E. first part, light N. W. breeze last hour. At 7 sighted light ahead. At end of watch light bore W. N. W. Steaming four boilers. Steam pressure 40 lbs. Revolutions 32. At 6.15 changed course to W. N. W. 3/4 W. At 7 changed course to W. by N. Hydrometer 25.

(Signed) Samuel C. Lemly
Ensign.

From 8 to Midnight. Clear. Warm. Hazy. Light airs, varying from N. W. to N. E. Bright moonlight. Steaming into Santos River, first part. At 10.20 came to in the mouth of Santos River, in 6 1/2 fathoms water, 30 fathoms port chain. Soft bottom. Draught forward 14 feet. Amidships 15 feet. Aft 16 feet. Banked fires and started distiller.

(Signed) Charles B. T. Moore
Ensign.

Examined and found to be correct

Moon Phase, 2nd Qr, Dec. N 25°.

Asa Walker, Lieut
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns,
Santos River, Brazil

Hour.	Knots.	Tenth's Fathoms.	WINDS.			BAROMETER.		TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
			Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. attd.	Air Dry Bulb.	Air Wet Bulb.					
A,M															
1	Flood		SW	WNW	1	29.93	83	85	83		bcz	Cir Cum	7		S
2			WSW	"	1	29.93	83	85	83		"	"	9		"
3			W	"	1	29.94	83	84	83		"	"	9		"
4			N	"	1	29.94	81	84	83		"	"	9		"
5	Ebb		NNW	Calm	0	29.94	81	84	82		"	"	9		"
6			"	NNE	2	29.94	81	84	82		"	"	8		"
7	Flood		SSW	"	1-2	29.95	83	85	82		"	"	8		"
8	"		"	"	1-2	29.97	85	85	82		"	"	8		"
9	"		SW by S	Calm	0	29.97	85	86	84		"	"	8		"
10	"		SSW	S	2	29.98	85	87	85		"	"	7		"
11	"		"	"	2	29.98	85	88	86		"	"	7		"
Noon	"		"	"	2	29.99	87	90	87		"	"	8		"

Distance run by Log since preceding Noon	knots		fathoms.	
Latitude by D. R. at Noon	°	'	"	
Longitude by D. R. at Noon	°	'	"	
Latitude by Observations at Noon ⊕	°	'	"	[Note on left margin reads "Sig No 624"]
Longitude by Chronometer from Forenoon Observations ⊕	°	'	"	
Current during the time knots fms. per hour, setting to the				
Variation of the Compass by Amplitude ⊕ observed at Sunrise	°	"	"	
Variation of the Compass by Azimuth ⊕ observed at	°	"	"	
Water expended during the preceding 24 hours			250	gallons.
Water Condensed during the preceding 24 hours			300	"
Water remaining on hand fit for me at Noon			2300	"
Coal consumed during the preceding 24 hours	2	tons	1890	lbs.
Coal remaining on hand at Noon	112	"	2190	"

P,M	Tenths																
1	Flood		SW by S	S by N	2	29.99	88	90	88	bcz	Cir Cum	8	S				
2	"		SSW	"	2	29.99	88	91	88	"	"	8	"				
3	2	3	S by W	S	2	29.97	88	91	88	89	"	"	8	"			
4	7	5	"	SSE	3	29.95	88	89	87	89	"	"	7	"	Steam and fore and aft sail		
5	5	4	"	SE by S	3	29.94	86	88	86	89	"	"	2	"			
6	3	4	"														
6	3	4	S	SE	4	29.93	85	87	85	88	"	"	2	"			
7	6	9	"	SE by E	4	29.93	84	86	84	87	"	"	6	"			
8	4	4	S by W	"	4	29.95	84	86	83	87	"	"	3	"	Sail alone		
9	5	5	"	"	4	29.95	84	85	84	87	"	"	7	"			
10	5	5	"	ESE	3	29.97	83	84	83	86	"	"	7	"			
11	5	2	"	E	3	29.97	83	84	83	86	"	"	7	"	All plain sail		
Mid.	4	0	"	"	2	29.98	83	84	83	86	"	"	8	"	Except F. T. M. S. S.		

Longitude by Chronometer from Afternoon Observations ⊕	0	1	2
Longitude by Chronometer Observations	0	1	2
Variation of the Compass by Amplitude	0	1	2
observed at Sunset	0	1	2
Variation of the Compass by	0	1	2
at	0	1	2

under the command of Commander Winfield Scott Schley, U. S. Navy.
Friday February 15th, 1878.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear and pleasant. Warm. Light airs from W.N.W.

(Signed) James K. Cogswell
Lieut.

From 4 to 8 A.M. Clear and warm. Calm first part. Light breeze from N. N. E. latter part. Slack water at 6. Commenced to swing to flood at 6.30. Engaged in reeving off new braces. Fires banked in four boilers. Time of swinging to flood 3 5'.

(Signed) Clinton K. Curtis
Lieut.

From 8 to Merid. Clear. Warm. Hazy. Calm first hour. Light sea breeze remainder of watch. Sent an officer ashore to communicate. At 11 hove log, current about .1. Fires banked in four boilers. Steam pressure 25 lbs.

(Signed) Samuel C. Lemly
Ensign.

From Merid. to 4 P.M. Clear. Warm. Hazy. Light breeze from S. by W. first part, shifting to S. S. E. At 2 got underway, steaming with four boilers. At 2.40 took departure Lat. 24° 02' 15" S. Long. 46° 20' 15" W. At 3.20 set all fore and aft sail. Draught forward 14 feet. Amidships 15 feet. Aft 16 ft.

(Signed) Charles B. T. Moore
Ensign.

From 4 to 6 P.M. Cloudy. Warm. Hazy. Gentle breeze first part, increasing to moderate breeze. Wind shifting from S. to E. At 6 set foresail. At 5.30 changed course to S. At end of watch Conceicon Rocks bore (pc) W. S. W. Density of sea water 24. Sea smooth.

(Signed) James K. Cogswell
Lieut.

From 6 to 8 P.M. Cloudy. Pleasant. Moderate breeze from S. E. by E. Barometer rising. Density of sea of sea [sic] water 25. At 7 called "make sail". Made sail to royals, except Mainsail. Uncoupled propeller and hauled fires.

(Signed) Clinton K. Curtis
Lieut.

From 8 to Midnight. Clear. Pleasant. Damp. Moderate S. E. by E. breeze first hour. Gentle breeze shifting to E. remainder of watch. Bright moonlight. At 9.30 set single reefed mainsail. At 10 density of sea water 25.

(Signed) Samuel C. Lemly
Ensign.

Moon Phase, 2nd Qr, Dec. N. 22°.

Examined and found to be correct

Asa Walker, Lieut
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, On passage from Santos to St. Catharina, Brazil

[Editors note: Notation in left margin reads: "Lat. S. 25° Long. W. 46° 30']

Hour.	WINDS.						BAROMETER.		TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
	Knots.	Tenths Fathoms.	Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. at'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A,M																
1	3	2	S by W	ENE	2		29.98	83	84	82	86	bc	Cir Cum	6	S	All plain sail
2	3	0	"	"	2		29.97	83	84	82	86	"	"	7	"	except F. T. M. S. S.
3	3	1	"	East	2		29.95	83	84	82	86	"	"	6	"	"
4	3	9	"	E by S	3		29.95	83	84	82	86	"	Cum Nimb	5	"	"
5	5	2	"	SE by E	4		29.98	81	83	81	86	"	"	1	"	"
6	5	8	"	"	4		29.98	81	83	81	86	"	"	5	"	"
7	7	4	"	E by S	5		30.00	81	83	81	86	"	"	7	"	"
8	4	0	"	"	5-6		30.01	82	84	82	86	"	"	5	"	Set F. T. M. S. S.
	4	0	SSW SW 1/2 S	"	"							"	"	5	"	"
9	6	5	"	"	4		30.04	83	85	82	86	"	"	5	"	"
10	6	4	"	"	4		30.05	83	86	83	86	"	Cum	5	"	Took in F. T. M. S. S.
11	6	0	"	"	4		30.04	83	86	83	86	"	"	4	"	"
Noon	8	0	"	"	4		30.03	84	87	83	86	"	"	6	"	"

Distance run by Log since preceding Noon	115 knots	6 tenths fathoms.
Latitude by D. R. at Noon	South 25 °	53 ' 57 "
Longitude by D. R. at Noon	West 46 °	57 ' 33 "
Latitude by Observations at Noon ⊕	South 25 °	58 ' 53 "
Longitude by Chronometer from Forenoon Observations ⊕	West 47 °	03 ' 15 "
Current during the time	knots	fms. per hour, setting to the
Variation of the Compass by Amplitude ⊕ observed at Sunrise	°	" "
Variation of the Compass by Azimuth ⊕ observed at 8 A.M. (Lat S. 25° 38' Long. W. 46° 44')	0 °	0 " "
Water expended during the preceding 24 hours		250 gallons.
Water during the preceding 24 hours		"
Water remaining on hand fit for me at Noon		2000 "
Coal consumed during the preceding 24 hours	tons	1690 lbs.
Coal remaining on hand at Noon	112 "	490 "

[Note in left margin reads "Lat. S. 26° 39' 30" Long W. 47° 40' 15"]

P,M	Tenths															
1	6	6	SW 1/2 S	E by S	4		30.02	84	87	84	86	bc	Cir Cum	6	S	All plain sail
2	6	4	"	ENE	4		30.01	84	87	84	86	"	"	5	"	except F. T. M. S. S.
3	6	2	"	"	4		30.00	83	87	84	86	"	"	4	"	"
4	6	2	"	"	4		29.98	83	86	83	86	"	"	4	"	"
5	5	9	"	"	4		29.98	83	85	83	86	"	"	6	"	"
6	6	5	"	"	5		29.99	83	85	82	86	"	"	5	"	"
7	7	4	"	"	5		29.99	83	84	81	85	"	"	5	"	"
8	7	4	"	"	5		29.99	83	84	81	85	"	"	5	"	"
9	6	8	"	"	4-5		30.01	83	84	82	85	"	"	5	"	"
10	5	8	"	"	4-5		30.02	83	84	81	85	"	Cum	5	"	"
11	5	6	"	"	4-5		30.03	83	84	82	85	"	"	4	"	"
Mid.	6	0	"	NE by N	4-5		30.03	83	84	882	85	"	"	5	"	"

[Longitude by Chronometer from Afternoon Observations ⊕	°	'	"
	Longitude by Chronometer Observations	°	'	"
	Variation of the Compass by Amplitude	°	'	"
	Variation of the Compass by	°	'	"

under the command of Commander Winfield Scott Schley, U. S. Navy.
Saturday February 16th, 1878.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear and pleasant. Light breeze from E. N. E. shifting to E. by S. and freshening to gentle breeze. Bright moonlight. Density of sea water 25.

(Signed) Charles B. T. Moore
Ensign.

From 4 to 8 A.M. Cloudy. Pleasant. Wind moderate until sunrise (about 5.30) when it increased to a fresh breeze blowing from E. Cum. Nimb. clouds. Ship on the course S. by W. until 7.30 when course was changed to S. S. W. Wind on point abaft the beam. Sea smooth, increasing. Ship steady. Density of sea water 25.

(Signed) James K. Cogswell
Lieut.

From 8 to Merid. Partially cloudy. Warm. Moderate breeze from E. by S. Barometer falling slowly. Density of sea water 25. At 8.05 changed course to S. W. 1/2 S. At 9 hauled down and stowed F. T. M. S. S. Moderate since from E [sic]. Ship rolling easily.

(Signed) Clinton K. Curtis
Lieut.

From Merid. to 4 P.M. Clear. Warm. Moderate breeze from E. by S. first hour, from E. N. E. remainder of watch. Cir. Cum. clouds. At 3 density of sea water 25. Ship rolling easily.

(Signed) Samuel C. Lemly
Ensign.

From 4 to 6 P.M. Clear. Warm. Moderate to stiff breeze from E. N. E. Sea moderate from E. N. E. Ship rolling easily. Sighted two sail during watch. Density of sea water.

(Signed) Charles B. T. Moore
Ensign.

From 6 to 8 P.M. Wind steady in force, fresh from E. N. E. Sea moderate. Ship rolling easily, about 8° maximum. Long swell setting to the N. Cir. Cum. clouds. Steering the course S. W. 1/2 S. Two lights in sight on lee bow, distant about 8 miles. Density of sea water 25.

(Signed) James K. Cogswell
Lieut.

From 8 to Midnight. Partially cloudy. Pleasant. Moderate to fresh breeze from E. N. E. shifting to N. E. by N. Barometer rising slowly. Density of sea water 25. At 11 took in mainsail, spanker and gaff topsail and squared away. Moderate sea from N. E. Ship pitching and rolling easily.

(Signed) Clinton K. Curtis
Lieut.

Moon Phase, 2nd Qr, Dec N. 17 °.

Examined and found to be correct

Asa Walker, Lieut
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, St. Catharina, Brazil

Hour.			WINDS.			BAROMETER.		TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky in time	State of the Sea.	Record of the sail the vessel is under at end of watch.	
			Courses steered.	Direction.	Force.	Leeway.	Height in inches.	The r. at'd	Air Dry Bulb.	Air Wet Bulb.						Water at surface.
A,M																
1	5	8	SW 1/2 S	NE	4		30.01	82	85	83	85	bc	Cir Cum	3	M	Sail alone
2	5	3	"	"	4		29.98	82	85	83	84	"	"	3	"	
3	5	0	"	"	4		29.98	82	85	83	84	"	Cir Cum Nimb	2	"	Took in royals and
4	1	8 0	ESE NW by N	NE by N	4-6		29.97	83	84	82	84	bcq	"	1	"	T. G. sails
5	0	0		NE	5		29.96	83	84	82	84	bc	"	2	"	Took in spanker
6	2	8	SW 3/4 S	"	5		29.97	83	84	82	84	"	"	1	"	Set Foresail
7	5	0	SW 1/4 S	NE by N	5		29.99	83	84	82	84	"	"	3	"	Took in foresail
8	Steaming into St. Catharina			N by E	5		30.00	83	85	83	83	"	"	2	"	
9				N by W	5		30.01	82	85	83	83	"	"	8	"	Steam.
10	Flood			"	5		30.01	83	85	83	83	o	"	0	"	
11			NNE	NNE	5		30.00	84	87	84		bc	"	1	"	
Noon	1	6	NE by N	NE by N	5		29.99	85	87	84		"	"	1	"	

Distance run by Log since preceding Noon

knots

fathoms.

Latitude by D. R. at Noon

o

'

"

Longitude by D. R. at Noon

o

'

"

Latitude by Observations at Noon ⊕

o

'

"

Longitude by Chronometer from Forenoon Observations ⊕

o

'

"

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊕ observed at Sunrise

o

"

"

[Note on left margin reads "Sig No 614"]

Variation of the Compass by Azimuth ⊕ observed at

o

"

"

Water expended during the preceding 24 hours

250 gallons

Water during the preceding 24 hours

"

Water remaining on hand fit for me at Noon

1700

"

Coal consumed during the preceding 24 hours

2

tons

1530

lbs.

Coal remaining on hand at Noon

109

"

1200

"

P,M Tenths

1	Flood		NNE	NNE	5	29.96	85	88	85	bc	Cir Cum	3	S
2	1	0	"	"	5	29.95	85	88	85	"	"	5	"
3			N	"	5	29.93	86	88	84	"	"	5	"
4	Ebb		NNW	"	5	29.90	86	87	84	"	"	5	"
5	"		SW	"	5	29.90	84	87	84	"	"	6	"
6	"	6	N by S	"	5	29.90	83	87	84	"	"	7	"
7	"		"	"	4	29.91	83	86	84	"	Cum Nimb	4	"
8	"		"	"	3	29.92	83	86	83	"	"	3	"
9	1	0	"	"	4	29.93	83	86	83	o	"	0	"
10	Flood		NNE	"	3	29.95	83	86	83	"	"	0	"
11			"	"	3	29.95	83	86	83	odrn	"	0	"
Mid.			"	"	2	29.94	83	86	83	"	"	0	"

Longitude by Chronometer from Afternoon Observations ⊕

o

'

"

Longitude by Chronometer Observations

o

'

"

Variation of the Compass by Amplitude observed at Sunset

o

'

"

Variation of the Compass by at

o

'

"

under the command of Commander Winfield Scott Schley, U. S. Navy.
Sunday February 17th, 1878.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Cloudy, pleasant. Moderate breeze from N. E. with moderate squalls last hour. Obscured moonlight. At 12.10 hauled down and stowed flying jib. At 2.30 took in royals and topgallant sails. Spread fires in four boilers. Furled mainsails. At 2.40 took in foresail. Set spanker and braced by the wind. At 2.30 sighted land abeam and on starboard bow. Density of sea water 25.

(Signed) Samuel C. Lemly
Ensign.

From 4 to 8 A.M. Cloudy. Pleasant. Stiff breeze varying from N. E. to N. by E. Sea moderate. Ship rolling easily. At 4.30 wore ship to N. and W. At 5.30 squared away and stood in for St Catherina. At 7.40 commenced steaming. Steam in four boilers. Density of sea water 25.

(Signed) Charles B. T. Moore
Ensign.

From 8 to Merid. Cloudy and pleasant. Cir. Cum. Nimb. clouds. Wind fresh, shifting from N. to E. Flood tide 1.6 knots per hour. Riding to wind and current. At 10 came to off Fort Santa Cruz in 5 1/2 fathoms water, veering to 30 fathoms starboard chain. Bearings at anchor. Light House, Fort Santa Cruz (pc) N. W. by W. 1/2 W. Cannas Point E. N. E. Banked fires in four boilers. Draught forward 13 ft 11 in. Amidships 14 ft 11 in. Aft 16 feet.

(Signed) James K. Cogswell
Lieut.

From Merid. to 4 P.M. Partially cloudy. Warm and pleasant. Wind fresh from N. N. E. Barometer falling. Slack water at 3.15. Commenced to swing to ebb at 3.45. Banked fires in two boilers. Distilling. Hauled fires in No.s 5 and 7 boilers at 2.

(Signed) Clinton K. Curtis
Lieut.

From 4 to 6 P.M. Clear. Warm. Stiff N. N. E. breeze. Cir. Cum. clouds. At 4.40 swung to the ebb. Ship pitching through a very small arc. Riding to wind and ebb. At 6 hove log, current .6 knots. Banked fires in two boilers. Steam pressure 25 lbs. Distilling.

(Signed) Samuel C. Lemly
Ensign.

From 6 to 8 P.M. Cloudy. Pleasant. Moderate breeze from N. N. E. first hour, dying out to gentle breeze. Sea moderate from N. N. E. Ebb tide. Let fires die out in two boilers. Fires banked in two boilers. Distilling.

(Signed) Charles B. T. Moore
Ensign.

From 8 to Midnight. Overcast. Damp. Misty. Moderate breeze first part, latter part light from N. N. E. Commenced to swing to flood at 9.30, swung at 10. Strength of ebb 1 knot per hour. Fires banked in two boilers. Distilling.

(Signed) James K. Cogswell
Lieut.

Moon Phase, 3rd Qr, Dec N. 10 °.
Examined and found to be correct

Asa Walker, Lieut
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, St. Catharina, Brazil

Hour.	Knots.	Tenths Fathoms.	Courses steered.	WINDS.		Leeway.	BAROMETER.		TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
				Direction.	Force.		Height in inches.	Ther. attd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A,M																
1	Flood		NNE	NNE	2-4		29.94	86	86	84		btdlt	Cum Nimb	2	S	
2	"	"	"	"	2-4		29.94	84	86	84		"	"	2	"	
3	1 0	"	"	"	2-4		29.92	84	85	84		bctf	"	1	"	
4	"	"	"	"	2-4		29.92	82	84	83		orit	"	0	"	
5	Ebb		SW	Calm	0		29.93	82	84	83		"	"	0	"	
6	"	"		S	1		29.93	81	83	82		bcl	"	1	"	
7		9	"	ESE	1		29.93	81	83	82		bc	Cir Cum Nimb	1	"	
8	"	"		NE	3		29.94	81	83	82		bcp	"	1	"	
9	Slack		WNW	NNE	3		29.92	82	84	83		"	"	2	"	
10	Flood		N	"	3		29.90	82	84	83		bc	"	2	"	
11	"		N by E	"	3		29.90	83	84	84		"	"	1	"	
Noon		6	"	"	3		29.90	85	88	84	"	"	"	4	"	

Distance run by Log since preceding Noon knots fathoms.

Latitude by D. R. at Noon ° ' "

Longitude by D. R. at Noon ° ' "

Latitude by Observations at Noon ⊕ ° ' "

Longitude by Chronometer from Forenoon Observations ⊕ ° ' "

Current during the time knots fms. per hour, setting to the [Note on left margin reads "Sig No 614"]

Variation of the Compass by Amplitude ⊕ observed at Sunrise ° " "

Variation of the Compass by Azimuth ⊕ observed at ° " "

Water expended during the preceding 24 hours 250 gallons

Water Condensed during the preceding 24 hours 700 "

Water remaining on hand fit for me at Noon 2200 "

Coal consumed during the preceding 24 hours 1 tons 890 lbs.

Coal remaining on hand at Noon 108 " 310 "

P,M		Tenths													
1	Flood		NNE	NNE	2		29.89	86	89	86		bc	Cir Cum	1	S
2	1	0	"	"	2		29.87	86	89	86		"	"	3	"
3	"	"	"	"	2		29.84	86	88	86		"	"	5	"
4	Slack		"	"	2		29.81	85	87	84		"	"	7	"
5	Ebb		SW	"	2		29.83	83	84	86		"	Cum Nimb	3	"
6	1	5	SSW	"	2		29.83	83	84	86		"	"	1	"
7	Ebb	"	"	NE SW SW to S	3		29.84	83	84	86		orbt	"	0	"
8	1	0	"	"	7-0		29.87	82	82	80		orgtl	"	0	"
9	"		WSW	N	1		29.91	82	82	81		oplt	"	0	"
10	Slack		SW by W	"	1		29.91	81	82	81		orlu	"	0	"
11	"		WSW	SW	2		29.89	81	82	81		opl	"	0	"
Mid.	F	6	NNE	"	2		29.89	81	82	81		orl	"	0	"

Longitude by Chronometer from Afternoon Observations ⊕ ° ' "

Longitude by Chronometer Observations ° ' "

Variation of the Compass by Amplitude observed at Sunset ° ' "

Variation of the Compass by at ° ' "

under the command of Commander Winfield Scott Schley, U. S. Navy.
Monday February 18th, 1878.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Cloudy and threatening. Light breeze from N. N. E. increasing in puffs to moderate breeze two full hours. Vivid lightening around horizon, with thunder and slight sprinkling of rain. Violent thunder and rain storm last hour. Barometer falling. Fires banked in two boilers. Distilling.

(Signed) Clinton K. Curtis
Lieut.

From 4 to 8 A.M. Cloudy. Pleasant. Raining during last hour, light passing showers last hour. Cir. Cum. Nimb. clouds. Light airs and calm first part of watch. Light breeze from E. S. E. shifting to N.E. At 7 hove log current .9 knots. Slack water at 4. Swung to ebb at 4.20. Very gentle swell from seaward.

(Signed) Samuel C. Lemly
Ensign.

From 8 to Merid. Cloudy. Warm. Light passing showers first hour. Gentle breeze from N. N. E. Commenced swinging to flood at 9.15. Got around to flood at 10. gentle swell from N. E. At 9.15 inspected at quarters. Fires banked in two boilers. Distilling. Comdg. Officer paid an official visit to Fort. At 12 tide logged .9 knots.

(Signed) Charles B. T. Moore
Ensign.

From Merid. to 4 P.M. Cloudy. Warm. Light breeze during watch from N. N. E. Flood tide. Slack water at 3.40. Cir. Cum. clouds. Exercised companies A. and B. Marine Guard at target practice with small arms. Fires banked in two boilers. Distilling. Force of tide 1 knot per hour.

(Signed) James K. Cogswell
Lieut.

From 4 to 6 P.M. Cloudy and threatening. Warm. Light breeze from N. N. E. Commenced to swing at 4, swung to ebb at 4.15. Fires banked in two boilers. Distilling.

(Signed) Clinton K. Curtis
Lieut.

From 6 to 8 P.M. Overcast and threatening first hour. Heavy thunder and rain storm, with wind from S. W. shifting to N. and E. to S. Let go port and veered to 30 fathoms forward of bitts. Hove log at 7, current 1 knot. Fires banked in two boilers. Steam pressure 25 lbs. Distilling.

(Signed) Samuel C. Lemly
Ensign.

From 8 to Midnight. Overcast. Raining. Light airs from N. first two hours. Light breeze from S. W. last two hours. Thunder and lightening. Slack water at 10. Got around to flood at 11.30. Fires banked in two boilers. Distilling.

(Signed) Charles B. T. Moore
Ensign.

Moon Phase, 3rd Qr, Dec N. 3°.
Examined and found to be correct

Asa Walker, Lieut
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, St Catharina, Brazil

Hour.	Knots.	Tenths Fathoms.	Courses steered.	WINDS.		Leeway.	BAROMETER.		TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
				Direction.	Force.		Height in inches.	Ther. at'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.				
A,M															
1	Flood		NNE	WS W	1		29.88	80	82	80		o	Cum Nimb	0	S
2	1	2	"	W	1		29.86	80	82	80		"	"	0	"
3			"	"	1		29.85	80	82	80		"	"	0	"
4			"	NN E	1		29.84	80	82	80		"	"	0	"
5			Swinging	"	1		29.84	80	82	80		"	"	0	"
6	Ebb		WSW	"	1		29.85	80	82	80		"	"	0	"
7			"	N	1		29.85	80	82	81		"	"	0	"
8	1	5	"	NW	1		29.86	80	82	81		"	"	0	"
9			N	"	0-1		29.86	81	83	81		bc	"	1	"
10			S by E	NE	0-1		29.87	81	84	82		"	"	1	"
11	Swing ing		"	SE	0-1		29.86	83	85	83		"	"	3	"
Noon			S	E	0-1		29.85	83	87	85		"	Cum Nimb	4	"

Record of the sail the vessel is
under at end of watch.

Distance run by Log since preceding Noon	knots	fathoms.
Latitude by D. R. at Noon	o	' "
Longitude by D. R. at Noon	o	' "
Latitude by Observations at Noon ⊕	o	' "
Longitude by Chronometer from Forenoon Observations ⊕	o	' "
Current during the time knots fms. per hour, setting to the		[Note on left margin reads "Sig No 614"]
Variation of the Compass by Amplitude ⊕ observed at Sunrise	o	" "
Variation of the Compass by Azimuth ⊕ observed at	o	" "
Water expended during the preceding 24 hours		250 gallons
Water Condensed during the preceding 24 hours		400 "
Water remaining on hand fit for me at Noon		2400 "
Coal consumed during the preceding 24 hours	1 tons	1450 lbs.
Coal remaining on hand at Noon	106 "	1100 "

P,M	Tenths													
1	Flood		NE by N	NNW	3	29.83	84	87	86		bc	Cir Cum	4	S
2		"	NNE	"	3	29.80	85	87	85		"	"	3	
3		"	"	"	3	29.78	85	88	86		"	Cum Nimb	3	"
4		1	"	SW	7	29.78	85	88	86		orltg	"	0	"
5	Ebb		SW	"	5-2	29.82	82	83	82		ogrit	"	0	"
6	1	3	"	"	2	29.84	80	83	82		obt	"	0	"
7		"	"	"	2	29.85	80	81	79		o	"	0	"
8	1	5	"	SSW	2-5	29.86	78	79	77		or	"	0	"
9		"	SSW	"	5-8	29.89	77	77	75		ogr	"	1	"
10		"	"	"	5-8	29.90	77	78	75		bcg	"	1	"
11		"	"	"	5-8	29.88	78	78	75		"	"	2	"
Mid.		"	"	"	5-7	29.88	78	78	75		"	"	1	"

Longitude by Chronometer from Afternoon Observations ⊕	o	' "
Longitude by Chronometer Observations	o	' "
Variation of the Compass by Amplitude observed at Sunset	o	' "
Variation of the Compass by at	o	' "

under the command of Commander Winfield Scott Schley, U. S. Navy.
Tuesday February 19th, 1878.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Overcast and pleasant. Light airs first three hours of watch, from S. and W, last hour from N. N. E. At 1 tide logged 1.2 knots. Cross in hawse, starboard chain on top. Fires banked in two boilers. Distilling.

(Signed) James K. Cogswell
Lieut.

From 4 to 8 A.M. Cloudy, threatening. Light airs from N. N. E. shifting to N. W. Commenced to swing at 4.45. Swung to ebb at 5.20. Hove up port anchor and got it ready for letting go. At 8 loosed sail to a buntline. Fires banked in two boilers. Distilling.

(Signed) Clinton K. Curtis
Lieut.

From 8 to Merid. Cloudy. Warm. Light variable airs. Ship swinging to the breezes through all points of the compass. Cir. Cum. Nimb. clouds. At 9.15 inspected at quarters. Engaged in reeving new braces. At 9.35 stopped distiller. Fires banked in two boilers. Steam pressure 20 lbs.

(Signed) Samuel C. Lemly
Ensign.

From Merid. to 4 P.M. Cloudy and pleasant first part. Overcast and threatening last hour. Thunder and lightening. Riding to flood. Current at 4.1 knots. Gentle breeze from N. N. E. shifting to N. E. At 3 furling sail. Fires banked in two boilers. Fresh squall from S. W. at 3.50.

(Signed) Charles B. T. Moore
Ensign.

From 4 to 6 P.M. Overcast and pleasant. Heavy thunder storm during past hour of watch, with heavy fall fall [sic] of rain, lightening. Barometer 29.78 hour. Rising to 29.84 during watch. Brazilian passed bound to N. Ebb tide logged 1.8 knots at 6. Turned ebb aft. Fires banked in two boilers.

(Signed) James K. Cogswell
Lieut.

From 6 to 8 P.M. Cloudy and rainy. Wind light from S. W. increasing to fresh breeze last hour. Ebb tide. Fires banked in two boilers.

(Signed) Clinton K. Curtis
Lieut.

From 8 to Midnight. Cloudy. Pleasant. Strong wind with heavy squalls from S. S. W. At 8.25 veered to 45 fathoms starboard chain. Cum. Nimb. clouds. Ship riding to wind. Fires banked in two boilers. Steam pressure 20 lbs.

(Signed) Samuel C. Lemly
Ensign.

Moon Phase, 3rd Qr, Dec S. 3°.
Examined and found to be correct

Asa Walker, Lieut
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, On Passage from St Catharina, Brazil, to Montevideo, Uruguay

Hour.	WINDS.				BAROMETER.		TEMPERATURE.				State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.	
	Knots.	Tenths Fathoms.	Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. at'd.	Air Dry Bulb.	Air Wet Bulb.						Water at surface.
A,M																
1	Flood		E by S	South	4-7		29.87	78	80	76		oq	Cum Nimb	0		M
2	2		E	"	4-7		29.86	78	79	78		"	"	0		"
3			"	"	3-9		29.86	78	79	78		"	"	0		"
4	Slack		SSW	"	3-6		29.86	78	79	78		"	"	0		"
5	Ebb		"	SSW	4-5		29.86	78	78	77		"	"	0		"
6			"	"	3		29.89	76	77	76		o	"	0		"
7			"	S by W	3-5		29.89	76	77	76		oq	"	0		"
8	8		"	"	3-5		29.90	76	77	76		"	"	0		"
9			"	"	2-5		29.91	77	79	77		o	"	0		"
10	Flood		"	"	5		29.92	78	80	78		"	"	0		"
11			"	"	3-5		29.91	80	79	78		"	"	0		"
Noon	Standing out of St Catherina			"	3-5		29.90	80	82	79		"	"	0		"
Distance run by Log since preceding Noon											knots		fathoms.			
Latitude by D. R. at Noon											o		"			
Longitude by D. R. at Noon											o		"			
Latitude by Observations at Noon ⊕											o		"			
Longitude by Chronometer from Forenoon Observations ⊕											o		"			
Current during the time				knots		fms. per hour, setting to the										
Variation of the Compass by Amplitude ⊕ observed at Sunrise											o		"			[Note on left margin reads "Sig No 615"]
Variation of the Compass by Azimuth ⊕ observed at											o		"			
Water expended during the preceding 24 hours													250 gallons			
Water during the preceding 24 hours													"			
Water remaining on hand fit for me at Noon													2100 "			
Coal consumed during the preceding 24 hours											4		tons	1790	lbs.	
Coal remaining on hand at Noon											101		"	1550	"	
P,M																
1	Standing out of St Catherina		S by W	4-6		29.86	78	80	78		o	Cum Nimb	0	R		
2	1 3 4	se by e 1/2 e	S	4-6		29.82	78	80	78	78	bc	"	1	"		
3	6 3	E by S	"	4-6		29.81	78	81	79	80	"	"	1	"		
4	6 2	se by e 1/2 e	S by W	5-6		29.81	78	80	78	82	"	"	1	"		
5	7 7	E by S	S	5-6		29.80	78	80	79	82	oq	"	1	"		
6	7 0	E 1/2 S	S by E	5-7		29.80	78	80	79	82	"	"	0	"	[Note on left margin reads: Lat 27° 36' S. Long 47° 32' W.]	
7	6 8	E by S	S	5-7		29.80	78	79	78	82	oqn	"	0	"		
8	6 8	ESE 1/2 E	S by W	5-7		29.80	78	79	78	82	"	"	0	"		
9	6 0	ESE	"	5-6		29.81	78	79	78	82	bcqn	"	0	"		
10	2 0	"	"	3-5		29.81	78	79	78	81	"	"	1	"		
11	1 5	"	"	2-5		29.80	78	79	78	80	"	"	1	"		
Mid.	2 8	ESE 1/2 E	"	2-5		29.80	78	79	78	81	bcq	"	1	"		
Longitude by Chronometer from Afternoon Observations ⊕											o		"			
Longitude by Chronometer Observations											o		"			
Variation of the Compass by Amplitude							observed at Sunset				o		"			
Variation of the Compass by							at				o		"			

[Note on left margin reads: Lat 27° 36' S.
Long 47° 32' W.]

under the command of Commander Winfield Scott Schley, U. S. Navy.
Wednesday February 20th, 1878.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Overcast. Cool. Wind fresh in squalls from S. Commenced swinging to flood at 12.40. Riding across wind and flood. Current two o'clock .2 knots. Slack water at 3.30.

(Signed) Charles B. T. Moore
Ensign.

From 4 to 8 A.M. Overcast and pleasant. Hazy. Cum. Nimb. clouds. Wind fresh. Squally. Blowing from S. S. W. first two hours, afterwards from S. by W. Barometer rising slowly. Ebb tide, logging at 8, 0.6 knots. Riding across wind and tide.

(Signed) James K. Cogswell
Lieut.

From 8 to Merid. Overcast and cloudy. Fresh breeze from S. by W. decreasing at times to moderate breeze. At 8.45 crossed royals and T. G. yards, bent light gear and got ready for sea. At 10.35 called "up anchor". At 11 got underway and stood out of St Catharina Bay. Draught forward 13 feet 11 in. Amidships 14 feet 11 in. Aft 16 feet.

(Signed) Clinton K. Curtis
Lieut.

From Merid. to 4 P.M. Cloudy. Fresh breeze from S. blowing in puffs. Cum. Nimb. clouds. At 12.45 set fore and aft sail, save gaff topsail and flying jib. At 1.5 took departure, Bapa Point (pc) W. by N. 1/2 N. Budge Island (pc) S. At 1.20 made square sail to top gallant sails, except mainsail. At 2 took in topgallant sails. Unbent main trysail, bent fore trysail instead and set the sail at 3. Ship undergoing heavy cork screw motion. Roll and pitch through 10°. Steaming with four boilers. Steam pressure 50 lbs. Rev. 38. Full and by.

(Signed) Samuel C. Lemly
Ensign.

From 4 to 6 P.M. Overcast. Fresh breeze with frequent squalls from S. and S. S. E. Sea rough. Ship rolling and pitching heavily. Unbent bower chains and stowed them below. At 5.50 called all hands and took two reefs in topsails and single reef in foresail. Hauled down jib. Full and by. Steaming with four boilers.

(Signed) Charles B. T. Moore
Ensign.

From 6 to 8 P.M. Overcast and squally. Ugly weather. Strong breeze from South. Sea heavy and setting to the N. Ship rolling and pitching moderating with occasional juks [sic]. Maximum roll 12 ° leeward. Heel of ship 5°. Clouds Nimbus and tinged with red to the S. and W. Steering full and by on starboard tack. Barometer steady at 29.80.

(Signed) James K. Cogswell
Lieut.

From 8 to Midnight. Cloudy and squally, weather unsettled. Light breeze with stiff puffs from S. by W. Sea rough, moderating last hour. Ship pitching and rolling easily. At 9 uncoupled propeller and banked fires. Density of sea water 25.

(Signed) Clinton K. Curtis
Lieut.

Moon Phase, 3rd Qr, Dec S 10 °.
Examined and found to be correct

Asa Walker, Lieut
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, On Passage from St Catharina, Brazil, to Montevideo, Uruguay

Hour.	Knots.	Tenths Fathoms.	Courses steered.	WINDS.			BAROMETER.			TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
				Direction.	Force.	Leeway.	Height in inches.	Ther. atfd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.						
A.M																	
1	1	8	se by e 1/2 e	S by W	4-6	1/2	29.79	78	79	78	83	bcb	Cir Cum Nimb	3	R	Double reefed topsails	
2	1	4	SE 1/2 E	SSW	5	1/2	29.78	78	79	78	81	bc	"	6	"	Reefed foresail with	
3	1	0	se by e 1/2 e	"	4	1/2	29.78	78	79	78	82	"	"	4	"	M. try sail and	
4	1	2	"	S by W	4	1/2	29.77	77	78	77	82	bcp	"	2	"	F. T. M. S. S.	
5	1	1	SE by E	"	4	3	29.78	77	78	77	82	bc	"	5	"		
6	1	2	"	"	4	3	29.79	78	79	78	82	"	"	3	"		
7	1	4	se by e 1/2 e	"	4	2	29.80	78	80	79	82	"	"	4	"	Shook out reefs, set	
8	3	0	E by S	S	4	1	29.82	78	79	78	82	"	"	3	"	jib and T. G. Sails.	
9	2	6	ESE 1/2 E	"	3	2	29.82	78	79	78	81	"	"	1	"		
10	1	5	E by S	"	2-3	2	29.82	77	79	78	81	o	"	0	"		
11		8	E 1/2 N	S by E	2	2	29.81	77	79	78	81	"	"	0	"	Set M. sail.	
Noon	1	0	E	SSE	1-2	3	29.81	78	80	79	81	"	"	0	"		
Distance run by Log since preceding Noon											76 knots		4 tenths fathoms.				
Latitude by D. R. at Noon											S. 27 °		45 ' 00 "				
Longitude by D. R. at Noon											W. 47 °		01 ' 00 "				
Latitude by Observations at Noon ⊕													° ' "				
Longitude by Chronometer from Forenoon Observations ⊕											W. 46 °		56 ' 00 "				
Current during the time											knots		fms. per hour, setting to the				
Variation of the Compass by Amplitude ⊕ observed at Sunrise											°		" " "				
Variation of the Compass by Azimuth ⊕ observed at 8 A.M. Lat S.27°45'Long W.47°02'											0 °		15 " "W.				
Water expended during the preceding 24 hours													250 gallons				
Water during the preceding 24 hours													"				
Water remaining on hand fit for me at Noon													1800 "				
Coal consumed during the preceding 24 hours											1 tons		230 lbs.				
Coal remaining on hand at Noon											100 "		1320 "				
P.M																	
		Tenths															
1	3	0	ESE 1/2 E	SSE	2-4	1	29.82	79	80	78	81	oqd	Cum Nimb	0	M		
2	2	6	E by S	"	2-5	2	29.81	77	77	76	81	"	"	0	"		
3	2	6	"	"	2-3	2	29.80	78	77	76	81	oqr	"	0	"		
4	2	5	E 1/2 S	"	2-3	2	29.80	78	77	76	81	bcp	"	0	"		
5	1	5	E by N	SE by S	3		29.79	78	78	77	81	bc	"	4	"	Set royals and gaff topsail	
6	5	0	SW by S	"	4		29.80	78	79	78	81	"	"	5	"	Set Fly jib.	
7	5	2	SSW 3/4 W	"	4		29.80	77	79	78	81	"	"	4	"		
8	4	0	SW by S	"	4		29.82	77	79	78	81	"	"	5	"	Took in royals and	
9	2	6	SSW 1/2 W	"	4	1/2	29.83	77	78	77	82	"	"	8	"	F. jib.	
10	2	4	SW 3/4 S	"	4	1/2	29.84	77	78	77	82	"	"	2	"		
11	2	4	SW 1/2 S	"	4	1/2	29.85	78	79	78	82	"	"	6	"		
Mid.	2	0	"	"	4	1/2	29.85	77	79	77	82	"	"	5	"	Plain sail to T. G. sail.	
Longitude by Chronometer from Afternoon Observations ⊕											°		' "				
Longitude by Chronometer Observations											°		' "				
Variation of the Compass by Amplitude											°		' "				
Variation of the Compass by											°		' "				

under the command of Commander Winfield Scott Schley, U. S. Navy.
Thursday February 21st, 1878.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Partially clear. Pleasant. Fresh breeze falling to moderate breeze from S. S. W. Obscured moonlight. Cir. Cum. clouds. Light passing showers first and last hour. A kind of cork screw motion. Roll and pitch about 10°. Fires banked in four boilers. Steam pressure 20 lbs. Density of sea water 25.

(Signed) Samuel C. Lemly
Ensign.

From 4 to 8 A.M. Cloudy. Pleasant. Moderate breeze from S. by W. and S. Sea rough. Ship rolling and pitching heavily. Full and by. At 7.30 shook reefs out of topsails, set jib, gaff topsail and T. G. sails. Shook reef out of foresail. Density of sea water 25. Fires banked in four boilers. Steam pressure 20 lbs.

(Signed) Charles B. T. Moore
Ensign.

From 8 to Merid. Overcast and pleasant. Light variable airs. Occasional light squalls with sprinkling of rain. Scarcely steerageway at times. Long swell from S. E. Cir. Cum. Nimb. clouds. Barometer steady last three hours of watch. At 9.15 inspected at quarters. Exercised companies A and B with single sticks. Hauled fires at 10. Density of sea water 25. Rolling considerably at times, 15° to leeward.

(Signed) James K. Cogswell
Lieut.

From Merid. to 4 P.M. Cloudy. Squally and rainy, weather unsettled. Light breeze from S. S. E. with stiff puffs first part of watch. Barometer falling slowly. Moderate sea from N. and E. Ship rolling and pitching easily. Density of sea water 26.

(Signed) Clinton K. Curtis
Lieut.

From 4 to 6 P.M. Partially clear. Pleasant. Light S. E. by S. breeze, increasing to moderate at end of watch. At 4.30 tacked ship to S. W. by S. At 4 set gaff topsail. At 5 crossed royal yards and loosed the sail. Set F. jib at 5.45. Full and by. Under all sail, single reefed mainsail.

(Signed) Samuel C. Lemly
Ensign.

From 6 to 8 P.M. Clouds. Pleasant. Moderate breeze from S. E. by S. Sea moderate. Ship pitching easily. At sunset mustered at quarters. At 7.35 took royals and flying jib.

(Signed) Charles B. T. Moore
Ensign.

From 8 to Midnight. Cloudy and pleasant. Moderate breeze from S. E. by S. fresh at times. Sea moderate. Long heavy swell from S. Ship rolling and pitching moderately. Cum. Nimb. clouds. Moon rose at 9.10. Density of sea water 25.

(Signed) James K. Cogswell
Lieut.

Moon Phase 3rd Qr, Dec S. 16 °.

(Signed) Asa Walker,
Lieut
Navigator.

Examined and found to be correct

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, On Passage from St. Catharina, Brazil, to Montevideo, Uruguay

				WINDS.			BAROMETER.			TEMPERATURE.							Record of the sail the vessel is under at end of watch.				
Hour.	Knots.	Tenths.	Fathoms.	Courses steered.	Direction.	Force.	Leeway.	Height in inches.	The r. air' d.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.	State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.					
A.M																					
1	3	0	SW 3/4 W.	SSE	5-4	1/2	29.85	77	79	76	81	bc	Str Cum	6	M	All plain sail					
2	2	5	SW by W 1/2 W	S by E	3-4	1/2	29.85	77	79	76	81	"	"	7	"	to T. G. sail and					
3	3	0	"	"	3-4	1/2	29.83	77	79	76	81	"	"	8	"	Single reefed M. sail.					
4	3	0	"	"	3-4	1/2	29.83	77	79	76	81	"	"	7	"	"					
5	2	6	"	"	2	1/4	29.85	77	78	75	81	"	"	8	L	"					
6	1	6	"	"	1-2	1/4	29.85	76	78	76	81	"	Cir Cum Str	7	"	Set royals and F. jib.					
7	3	0	WSW	S	3	1/4	29.88	76	78	76	81	"	Cir Cum	4	"	"					
8	3	5	WSW 1/4 W	"	2	1/4	28.88	76	78	76	81	"	"	3	"	"					
9	2	3	ESE	"	3		29.90	77	79	77	81	"	"	6	"	"					
10	3	0	ESE 1/2 E	"	3		29.90	77	79	77	82	"	"	5	"	"					
11	3	7	"	"	3		29.89	77	80	78	82	"	"	7	"	"					
Noon	3	4	SE by E 1/2 E	"	3		29.89	77	81	79	82	"	"	8	"	"					
Distance run by Log since preceding Noon												71 knots		4 tenths fathoms.							
Latitude by D. R. at Noon												S. 28 °		14 ' 12 "							
Longitude by D. R. at Noon												W. 47 °		10 ' 00 "							
Latitude by Observations at Noon ⊕												S. 28 °		27 ' 00 "							
Longitude by Chronometer from Forenoon Observations ⊕												W. 47 °		22 ' 00 "							
Current during the time				knots				fms. per hour, setting to the				[Note on left margin reads "Sig No 614"]									
Variation of the Compass by Amplitude ⊕ observed at Sunrise												°		"		"					
Variation of the Compass by Azimuth ⊕ observed at 7.30 A.M. Lat. S. 28°22' Long W. 47° 33'												E. 0 °		40 "		"					
Water expended during the preceding 24 hours														250 gallons							
Water during the preceding 24 hours														"							
Water remaining on hand fit for me at Noon														1500 "							
Coal consumed during the preceding 24 hours														tons		250 lbs.					
Coal remaining on hand at Noon												100		"		1070		"			
				leeway		Force															
P.M																					
Tenths																					
1	2	7	SE by E	S by W	1/2	3	29.89	77	81	79	82	bc	Cir Cum	8	L						
2	2	0	SE by E 1/2 E	"	1/2	3	29.89	78	81	79	82	"	"	8	"						
3	2	6	"	"	1/4	2-3	29.90	78	81	79	82	"	"	8	"	Plain sail					
4	2	2	"	"	1/4	2-3	29.90	78	81	78	82	"	"	8	"						
5	2	5	"	"	1/4	2-3	29.90	78	81	78	82	"	"	8	"						
6	2	6	ESE 1/2 E	"	1/4	3	29.90	78	81	78	82	"	"	8	"						
7	3	0	E 1/2 N	SSE	1/4	3	29.85	78	79	78	81	"	"	8	"	All plain sail					
8	3	2	"	"	1/4	3	29.87	78	79	78	81	"	"	8	"						
9	1	0	E	"		1	29.88	79	78	77	81	"	"	9	"	Took in courses					
10	0	5	"	Calm		0	29.88	79	78	77	81	"	"	9	"						
11	No steerage way			"		0	29.87	79	78	77	80	"	"	9	"	All plain sail except					
Mid.	"	"	"	"		0	29.85	79	78	77	81	"	"	8	"	Courses, spanker and gaff topsail.					
[Note in the left margin reads "Lat. S. 28° 32' Long W. 47° 00']																					
Longitude by Chronometer from Afternoon Observations ⊕												°		'		"					
Longitude by Chronometer Observations												°		'		"					
Variation of the Compass by Amplitude								observed at Sunset				°		'		"					
Variation of the Compass by								at				°		'		"					

under the command of Commander Winfield Scott Schley, U. S. Navy.
Friday February 22nd, 1878.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear and pleasant. Gentle to moderate breeze from S. by E. and S. S. E. Moderate sea from S. and E. Ship rolling and pitching easily. Barometer falling slowly. Moonlight bright. Density of sea water 26.

(Signed) Clinton K. Curtis
Lieut.

From 4 to 8 A.M. Partially clear. Pleasant. Light S. by E. breeze first part, and S[outher]ly latter part of watch. Cir. Cum. Str. clouds. At 6 set royals and F. jib. Full and by. Under all plain sail, single reefed mainsail. Density of sea water 25.

(Signed) Samuel C. Lemly
Ensign.

From 8 to Merid. Clear. Pleasant. Gentle breeze from S. Full and by. Long swell from S. E. Ship rolling and pitching easily. At 9.15 exercised at fire quarters. Cast loose in 50 s. Secured in 1 m 32 s. At [illegible] tacked ship. Density of sea water 26. Hoisted colors in honor of the day.

(Signed) Charles B. T. Moore
Ensign.

From Merid. to 4 P.M. Clear and pleasant. Moderate breeze from S. by W. Long swell from S. Cir. Cum. clouds. Full and by. Ship rolling and pitching easily. Density of sea water 25.

(Signed) James K. Cogswell
Lieut.

From 4 to 6 P.M. Clear, warm and pleasant. Light to gentle breeze from S. by W. Barometer steady. Long swell from S. Ship rolling and pitching easily. Density of sea water 25.

(Signed) Clinton K. Curtis
Lieut.

From 6 to 8 P.M. Clear. Pleasant. Gentle S. S. E. breeze. Cir. Cum. clouds. At sunset mustered at quarters. At 6.45 clewed down fore royals and secured lee lift and brace. Full and by. A kind of cork screw motion. Roll and pitch about 10°.

(Signed) Samuel C. Lemly
Ensign.

From 8 to Midnight. Clear and pleasant. Light airs from S. first hour, calm remainder of watch. Long swell from S. Ship rolling heavily. Moon rose at 9.45. Hauled up courses at 9.45. Density of sea water 25. At 10.30 took in spanker and gaff topsail.

(Signed) Charles B. T. Moore
Ensign.

Moon Phase 3rd Qr, Dec. S 21 °.

(Signed) Asa Walker,
Lieut

Examined and found to be correct

Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, On passage from St Catharina, Brazil.

Hour.	Knots.	Tenths Fathoms.	Courses steered.	WINDS.		Leeway.	BAROMETER.		TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.			
				Direction.	Force.		Height in inches.	Ther. at'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.								
A,M																			
1			No steerage way	Calm	0		29.88	78	78	77	82	bc	Cir Cum	9	L	All square sail			
2			"	"	0		29.90	78	78	77	82	"	"	9	"	jib and F. T. M. S. S.			
3			"	"	0		29.87	78	78	77	82	"	"	5	"				
4			"	"	0		29.86	78	78	77	81	"	"	8	"				
5			"	"	0		29.88	78	78	77	81	"	"	5	"				
6			"	"	0		29.88	78	79	78	81	"	Cum Nimb Str	3	"				
7			"	"	0		29.88	78	79	78	81	"	"	3	"				
8		5	SSW	NE	0-1		29.90	78	80	79	81	"	"	3	"				
9		5	"	"	0-1		29.92	78	80	79	81	"	Cir Cum Str	2	"	Set fore sail			
10	1	0	"	"	0-1		29.92	79	82	81	81	"	"	7	"				
11	1	0	"	"	0-1		29.92	79	82	81	81	"	"	8	"				
Noon		5	"	"	0-1		29.92	81	83	82	80	"	"	5	"	All plain sail			
Distance run by Log since preceding Noon												25 knots	8 tenths fathoms.						
Latitude by D. R. at Noon												S. 28 °	33	'	42	"			
Longitude by D. R. at Noon												W. 46 °	59	'	30	"			
Latitude by Observations at Noon ⊕												S. 28 °	59	'	56	"			
Longitude by Chronometer from Forenoon Observations ⊕												W. 46 °	59	'	00	"			
Current during the time				1.1	knots	fms. per hour, setting to the				South	[Note on left margin reads "Sig No 614"]								
Variation of the Compass by Amplitude ⊕ observed at Sunrise												°	"	"	"				
Variation of the Compass by Azimuth ⊕ observed at 7.30 A.M. Lat S. 28° 56' Long W. 46° 58'												1° °	30	"	E.				
Water expended during the preceding 24 hours														250 gallons					
Water during the preceding 24 hours														"					
Water remaining on hand fit for me at Noon														1300 "					
Coal consumed during the preceding 24 hours														tons	250	lbs.			
Coal remaining on hand at Noon														100	"	820	"		
P,M																			
		Tenths																	
1	0	2	SSW	NE	0-1		29.91	82	85	84	81	bc	Cir Cum Cum Nimb	3	L	All plain sail			
2	1	6	SW by S	"	1		29.90	83	86	84	82	o	"	0	"	except M. sail			
3	1	8	"	"	2		29.87	83	85	84	82	bc	"	2	"	spanker and gaff			
4	1	6	"	"	1		29.83	83	85	83	82	"	"	1	"	topsail.			
5	2	5	"	"	3		29.88	83	84	82	82	"	"	8	"				
6	3	6	"	ENE	3		29.86	83	84	82	82	"	"	7	"				
7	4	0	"	NNE	3		29.84	82	84	82	82	"	"	4	"				
8	4	6	"	"	3-4		29.84	82	84	82	82	"	"	7	"				
9	6	0	"	"	4		29.87	82	83	82	82	"	"	4	M	Hauled down jib.			
10	6	5	"	"	4		29.90	82	82	82	81	"	"	6	"				
11	6	5	"	"	4		29.91	82	82	82	81	"	"	1	"				
Mid.	6	5	"	"	4		29.91	82	82	82	80	bcp	"	1	"	All plain sail.			
Longitude by Chronometer from Afternoon Observations ⊕												°	'	"	"				
Longitude by Chronometer Observations												°	'	"	"				
Variation of the Compass by Amplitude												observed at Sunset	°	'	"	"			
Variation of the Compass by												at	°	'	"	"			

under the command of Commander Winfield Scott Schley, U. S. Navy.
to Montevideo, Uruguay. Saturday February 23rd, 1878.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear and pleasant. Calm. No steerage way. Cir. Cum. clouds passing from N. to S. Long swell from S. Ship rolling deeply. Density of sea water 26. Maximum roll 20°.

(Signed) James K. Cogswell
Lieut.

From 4 to 8 A.M. Cloudy. Warm. Pleasant. Calm first three hours. Light airs from N.E. last hour. S. S. E. swell. Ship rolling easily. Exchanged colors with a large Italian steamer standing S. S. W. Density of sea water 26.

(Signed) Clinton K. Curtis
Lieut.

From 8 to Merid. Clear. Warm. Very light N. E[aster]ly air. Cir. Cum. Str. clouds. Ship rolling and pitching through 16°. Density of sea water 26. At 8.25 set foresail.

(Signed) Samuel C. Lemly
Ensign.

From Merid. to 4 P.M. Cloudy. Pleasant. Light airs to light breeze from N. E. Long swell from S. E. Ship rolling through 15°. On course S. W. by S. At 12.15 changed course to S. W. by S. Density of sea water 26.

(Signed) Charles B. T. Moore
Ensign.

From 4 to 6 P.M. Clear and pleasant. Moderate breeze from N. E. first part, from E. N. E. last hour of watch. Cum. Nimb. clouds. Long swell from S. E. Ship rolling deeply, pitching easily. Density of sea water 26.

(Signed) James K. Cogswell
Lieut.

From 6 to 8 P.M. Partially cloudy. Pleasant. Gentle to moderate breeze from N. N. E. Long swell from S. E. Ship rolling easily. Barometer steady. Density of sea water 25. At 7.30 hauled up mainsail and squared away.

(Signed) Clinton K. Curtis
Lieut.

From 8 to Midnight. Cloudy. Cool. Pleasant. Moderate N. N. E. breeze. Cum. Nimb. clouds. At 8.15 hauled down and stowed jib. A 10.45 moon rose. Ship rolling easily through about 15°.

(Signed) Samuel C. Lemly
Ensign.

Moon Phase, 3rd Qr, Dec, S. 25°.

(Signed) Asa Walker,
Lieut
Navigator.

Examined and found to be correct

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns,
On passage from St Catharina, Brazil,
[note in left margin reads "Lat 30° 00' N Long 47° 50' W. Sig 603"]

Hour.	WINDS.					BAROMETER.		TEMPERATURE.				State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
	Knots.	Tenths Fathoms.	Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. at'd.	Air Dry Bulb.	Air Wet Bulb.	Water surface.					
A.M																
1	6	4	SW by S	NNE	4		29.88	81	82	80	80	bcp	Cum Nimb	2	M	All square sail
2	6	5	"	"	4		29.87	81	81	79	80	bc	"	6	"	And F.T.M.S.S.
3	6	5	"	"	5		29.84	81	80	79	80	"	"	3	"	
4	6	8	"	"	5		29.84	80	81	80	79	"	Cir Cum Nimb	4	"	
5	6	8	"	"	5		29.84	80	81	80	79	o	"	0	"	At 3.05 set M. sail
6	5	6	"	"	4		29.83	80	81	80	79	"	"	0	"	
7	6	4	"	"	5		29.84	80	81	80	79	bc	"	7	"	
8	6	6	"	"	5		29.84	80	82	81	79	"	"	8	"	
9	6	4	"	"	5		29.84	81	83	82	79	"	"	6	"	
10	6	0	"	"	5		29.85	81	84	83	80	"	"	5	"	
11	5	8	"	"	4-5		29.84	81	84	82	80	"	"	3	"	
Noon	5	6	"	"	4-5		29.86	82	84	83	80	"	"	3	"	

Distance run by Log since preceding Noon 122 knots 6 tenths fathoms.

Latitude by D. R. at Noon S. 30 ° 40 ' 00 "

Longitude by D. R. at Noon W. 48 ° 22 ' 15 "

Latitude by Observations at Noon ⊕ S. 30 ° 55 ' 23 "

Longitude by Chronometer from Forenoon Observations ⊕ W. 48 ° 19 ' 00 "

Current during the time 0.6 knots fms. per hour, setting to the South [Note on left margin reads "Sig No 603"]

Variation of the Compass by Amplitude ⊕ observed at Sunrise ° " "

Variation of the Compass by Azimuth ⊕ observed at 7.30 Lat S. 30° 31' Long W. 48° 00' E. S ° " "

Water expended during the preceding 24 hours 250 gallons

Water during the preceding 24 hours "

Water remaining on hand fit for me at Noon 1000 "

Coal consumed during the preceding 24 hours tons 2010 lbs.

Coal remaining on hand at Noon 99 " 1050 "

[note in left margin reads "Lat S. 31° 17' Long W. 48° 42']

P,M	Tenths		Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. at'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.	State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
	Knots.	Fathoms.														
1	1	5	SW by S	NNE	3		29.87	82	85	83	79	bcz	Cir Cum	4	M	Hauled up M. sail
2	4	2	SW 1/2 S	NE	3		29.86	83	86	84	79	"	"	6	"	
3	4	2	"	"	3		29.85	83	87	85	77	"	"	5	"	
4	3	8	"	"	3		29.84	83	86	85	77	"	"	6	"	Plain sail
5	3	4	"	"	3		29.84	83	85	83	78	"	Cir Cum Nimb	1	"	
6	3	4	"	"	3		29.84	82	84	83	78	"	"	6	"	
7	2	8	"	"	3		29.85	82	83	82	78	bcm	"	6	"	
8	2	6	"	"	3		29.86	82	83	82	78	"	"	7	"	
9	2	6	"	"	3		29.87	82	83	83	78	"	"	3	"	
10	2	8	"	"	3		29.87	82	82	80	78	"	"	1	"	
11	3	0	"	"	3		29.87	82	79	80	78	"	"	2	"	
Mid.	3	4	"	"	3		29.87	82	79	80	78	"	"	1	"	

Longitude by Chronometer from Afternoon Observations ⊕ ° ' "

Longitude by Chronometer Observations ° ' "

Variation of the Compass by Amplitude observed at Sunset ° ' "

Variation of the Compass by at ° ' "

under the command of Commander Winfield Scott Schley, U. S. Navy.
to Montevideo, Uruguay. Sunday February 24th, 1878.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Cloudy. Cool. Pleasant. Damp. Moderate to stiff breeze from N. N. E. Light, passing showers first hour. Sea Moderate. Ship rolling easily. On course S.W. by S. At 3.05 set mainsail. Density of sea water 26.

(Signed) Charles B. T. Moore
Ensign.

From 4 to 8 A.M. Overcast first part, clear and pleasant latter part of watch. Fresh breeze from N. N. E. Sea moderate. Cross sea. Ship rolling and pitching moderately. Density of sea water 26. Steering course S. W. 1/2 S. Barometer steady.

(Signed) James K. Cogswell
Lieut.

From 8 to Merid. Cloudy. Warm. Moderate to fresh breeze from N. N. E. Barometer rising slowly. At 9.15 called "All divisions to quarters" for inspection. At 9.30 Commander inspected ship and crew at quarters, immediately read prayers on quarter deck. Moderate sea from N. Ship rolling and pitching easily. Density of sea water 26.

(Signed) Clinton K. Curtis
Lieut.

From Merid. to 4 P.M. Partially cloudy. Hazy. Warm. Gentle breeze from N.E. ~~Sea moderate. Ship rolling and pitching easily. At 5 furling mainsail.~~ At 12.15 changed course to S. W. 1/2 S. At 2 squared away and hauled up mainsail. Ship rolling easily. Hydrometer 27.

(Signed) Samuel C. Lemly
Ensign.

From 4 to 6 P.M. Cloudy. Pleasant. Hazy. Gentle breeze from N. E. Sea moderate. Ship rolling and pitching easily. At 5 furling mainsail. Sea moderate. Ship rolling and pitching easily. At 5 furling mainsail. A sail in sight on port bow. Density of sea water 26.

(Signed) Charles B. T. Moore
Ensign.

From 6 to 8 P.M. Cloudy and pleasant. Gentle breeze from N. E. Sea smooth. Ship rolling easily. Course S.W. 1/2 S. Damp, misty around horizon. Stated [started] fires in two boilers for distilling at 6. Fires banked in two boilers. Density of sea water 26.

(Signed) James K. Cogswell
Lieut.

From 8 to Midnight. Cloudy. Damp. Gentle breeze from N. E. Barometer steady. Heat lightening about horizon to the N. W. and S. E. Moderate swell. Ship rolling easily. At 8.45 started distiller. Density of sea water 26.

(Signed) Clinton K. Curtis
Lieut.

Moon Phase, Last Qr, Dec S. 27 °.

Examined and found to be correct

(Signed) Asa
Walker, Lieut
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, On passage from St. Catharina, Brazil, to

Hour.				WINDS.			BAROMETER.			TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.				
	Knots.	Tenths Fathoms.	Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. at'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.										
A.M																					
1	3	7	SW 1/2 S	NE	3		29.85	81	82	81	78	bcm	Cir Cum Nimb	5	M	Royals, F. G. sails					
2	3	5	"	"	2-3		29.85	81	82	81	78	"	"	3	"	topsails, foresail					
3	2	7	"	"	2		29.85	81	82	81	77	"	"	3	"	and F. T. M. S. S.					
4	1	8	"	"	1		29.83	81	82	81	77	"	"	4	"	"					
5	1	6	"	"	1		29.86	80	79	79	76	"	"	1	"	"					
6	2	1	"	"	1		29.86	80	80	79	76	"	"	4	"	"					
7	1	7	"	"	0-1		29.87	80	80	79	76	"	"	2	"	"					
8	1	1	"	"	0-1		29.87	80	81	80	77	"	"	4	"	"					
9	1	2	"	"	0-1		29.89	80	81	80	78	"	"	8	S						
10	1	2	"	"	0-1		29.89	80	82	81	78	ocm	"	0	"						
11	1	2	"	"	0-1		29.88	80	82	81	78	bcm	"	4	"						
Noon	1	0	"	"	0-1		29.88	81	83	82	78	"	"	3	"						
Distance run by Log since preceding Noon												63 knots		6 tenths fathoms.							
Latitude by D. R. at Noon												S. 31 °		42 ' 35 "							
Longitude by D. R. at Noon												W. 49 °		08 ' 30 "							
Latitude by Observations at Noon ⊕												S. 31 °		55 ' 31 "							
Longitude by Chronometer from Forenoon Observations ⊕												W. 49 °		14 ' 20 "							
Current during the time				0.6	knots	fms. per hour, setting to the				S.S.W.				[Note on left margin reads "Sig No 603"]							
Variation of the Compass by Amplitude ⊕ observed at Sunrise												°		"		"					
Variation of the Compass by Azimuth ⊕ observed at 7.30 A.M. Lat S.31°51' Long W.49° 11'												E.3 °		25 "		"					
Water expended during the preceding 24 hours														250 gallons							
Water				Condensed				during the preceding 24 hours						700 "							
Water remaining on hand fit for me at Noon														1400 "							
Coal consumed during the preceding 24 hours												1 tons		760 lbs.							
Coal remaining on hand at Noon												98 "		290 "							
P.M																					
Tenths																					
1	0	5	SW 1/2 S	NE	0-1		29.87	83	85	83	78	bcm	Cir Cum Nimb	4	S	Set jib, F. jib and					
2	1	0	W by S	SSW	1		29.87	82	85	83	78	"	"	2	"	spanker. Took in					
3	4	5	"	S by W	2-5		29.87	81	84	81	78	om	"	0	"	royals and F. jib.					
4	7	2	SW	SSE	5		29.85	81	84	78	77	bcm	"	2	"						
5	7	4	SW 1/2 S	SE by S	5-6		29.88	77	77	76	79	"	"	1	M						
6	7	2	SW 1/4 S	SSE	5		29.84	77	76	75	78	"	"	2	"	M. try sail and					
7	6	6	SW 1/2 S	SE by S	5		29.85	82	76	75	79	"	"	7	"	all plain sail					
8	5	9	"	"	5		29.87	81	76	75	79	bc	"	8	"	except M. sail, Flying					
9	6	0	"	"	5		29.85	77	76	74	78	bcl	Cum Nimb	9	"	jib and royals.					
10	6	4	"	"	5		29.85	77	76	74	78	"	"	9	"	"					
11	6	5	"	"	5-6		29.82	77	75	74	78	bc	"	9	"	"					
Mid.	5	6	"	"	5-6		29.82	77	75	74	77	"	"	9	"	"					
Longitude by Chronometer from Afternoon Observations ⊕												°		'		"					
Longitude by Chronometer Observations												°		'		"					
Variation of the Compass by Amplitude												observed at Sunset				°		'		"	
Variation of the Compass by												at				°		'		"	

under the command of Commander Winfield Scott Schley, U. S. Navy.
Montevideo, Uruguay. Monday February 25th, 1878.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Cloudy. Damp. Gentle breeze falling light toward end of watch. Obscured moonlight. Cir. Cum. Nimb. clouds. Density of sea water 25. Fires banked in two boilers. Steam pressure 25 lbs.

(Signed) Samuel C. Lemly
Ensign.

From 4 to 8 A.M. Cloudy. Misty. Light airs from N. E. Moderate swell from N. E. Ship rolling and pitching easily. On course S. W. 1/2 S. Density of sea water 26. Fires banked in two boilers. Steam pressure 25 lbs. Distilling.

(Signed) Charles B. T. Moore
Ensign.

From 8 to Merid. Cloudy and warm. Misty. Light airs from N. E. Sea smooth. Light swell setting to the S. Ship rolling easily. Cir. Cum. Nimb. clouds. Steering course S. W. 1/2 S. At 9.15 exercised at general quarters. Time of casting loose. Marine Guard 30 s. Engineers Div. 1 m. Navigators Div. 1 m 15 s. Surgeons Div. 1 m 45 s. Powder Div. 1 m 50 s. 2nd Div. 4 m. 1st Div. 4 m 50 s. Secured in 5 m 50 s. By order of Commander the following punishments were assigned. Thomas Jones (Corpl. Marines) for insolence to Officer of Deck and not obeying his order, was suspended from duty and confined to berth deck. Wm Hardie (O.S.) for going below while on watch and going to sleep, was warned. G. W. Vaughn (Lds) Ellison Parker (Lds) Walter Thomas (Lds) for neglecting to obey orders, and W. C. Robinson (Lds) for neglect of duty, were each given one watch at night for three days. Fires banked in two boilers. Distilling. Density of sea water 26. Barometer steady.

(Signed) James K. Cogswell
Lieut.

From Merid. to 4 P.M. Weather cloudy. Light airs from N. E. first two hours, increasing to fresh breeze and shifting to S. S. W. and S. S. E. At 1.15 braced up on port tack and set jib, F. jib, spanker and M. try sail. At 2.45 took in royals and hauled down F. jib. Sea smooth. Density of sea water 26. Fires banked in two boilers. Distilling.

(Signed) Clinton K. Curtis
Lieut.

From 4 to 6 P.M. Cloudy. Damp. Fresh S. S. E. wind. Cir. Cum. Nimb. clouds. At 4.30 sent down royals yards. Ship pitching through 10°. Fires banked in two boilers. Steam pressure 25 lbs. Distilling. Density of sea water 26.

(Signed) Samuel C. Lemly
Ensign.

From 6 to 8 P.M. Clear. Cool. Damp. Stiff breeze from S. E. by S. On course S. W. 1/2 S. Sea moderate. Ship pitching heavily. At sunset mustered at quarters. Fires banked in two boilers. Steam pressure 25 lbs. Density of sea water 26.

(Signed) Charles B. T. Moore
Ensign.

From 8 to Midnight. Clear and cool. Fresh breeze from S. E. by S. increasing in force in puffs. Sea moderate. Steering course S. W. 1/2 S. close hauled on port tack. Barometer falling. Lightening to E. first part of watch. Fires banked in two boilers. Distilling. Density of sea water 26.

(Signed) James K. Cogswell
Lieut.

Moon Phase, Last Qr, Dec S. 28 °.

Examined and found to be correct

(Signed) Asa
Walker, Lieut
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, On passage from St Catharina, Brazil, to

			WINDS.			BAROMETER.			TEMPERATURE.											
Hour.			Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. at'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.	State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.				
	Knots.	Tenths Fathoms.																		
A,M																				
1	4	6	SW 1/2 S	SE by S	4		29.81	78	75	74	79	bc	Cum Nimb	2	S					
2	4	0	"	"	4-5		29.80	78	75	74	79	"	"	1	"					
3	5	4	SW 1/4 S	"	4-5		29.79	78	75	74	78	"	"	1	"					
4	6	0	"	SSE	4-5		29.78	78	75	74	78	"	"	2	"					
5	5	8	"	"	5		29.87	75	75	73	78	"	Cir Cum Nimb	2	"		Close reefed M. sail			
6	6	0	"	"	5		29.87	75	74	73	78	"	"	4	"		and all plain sail to			
7	6	0	SW 1/2 S	SE by S	5		29.89	75	75	73	79	"	"	3	"		T. G. sails, save F. jib			
8	6	4	"	"	5		29.90	75	75	73	78	"	"	5	"		took in M. try sail.			
9	5	0	"	"	4		29.91	76	76	74	77	"	"	5	"		set royals, took in			
10	4	2	"	"	3		29.92	75	76	74	77	"	Cir Cum	7	"		Spanker and F.T.M.S.S.			
11	4	8	SW 1/4 S	SSE	4		29.92	75	77	75	77	"	"	7	"		Set spanker, F. jib			
Noon	5	6	SW 1/2 S	SE by S	4		29.92	75	77	75	77	"	"	7	"		And F.T. M.S.S. All plain sail. Close Reefed mainsail.			
Distance run by Log since preceding Noon												129 knots	2 tenths fathoms.							
Latitude by D. R. at Noon												S. 33 °	23 '	00 "						
Longitude by D. R. at Noon												W. 51 °	04 '	20 "						
Latitude by Observations at Noon ⊕												S. 33 °	15 '	30 "						
Longitude by Chronometer from Forenoon Observations ⊕												W. 51 °	22 '	15 "						
Current during the time			0.7 knots	fms. per hour, setting to the			N.W. by W. 1/2 W.													
Variation of the Compass by Amplitude ⊕ observed at Sunrise												°	"							
Variation of the Compass by Azimuth ⊕ observed at 7.30 A.M. Lat 33° S. Long 51°.04 W.												E. 4 °	35 "	[Note on left margin reads "Sig No 602"]						
Water expended during the preceding 24 hours														250 gallons						
Water Condensed during the preceding 24 hours														700 "						
Water remaining on hand fit for me at Noon														1900 "						
Coal consumed during the preceding 24 hours												1 tons	1010 lbs.							
Coal remaining on hand at Noon												96 "	1520 "							
P,M																				
1	2	5	sw 1/2 s	SE	4		29.91	75	77	75	81	bcz	Cir Cum	4	S					
	1	5	sw by s	"	4		29.90	74	77	75	81	"	"	5	"					
2	5	0	"	"	4		29.95	74	76	74	81	"	"	5	"		Set M. try sail			
3	5	6	"	"	4		29.89	74	75	73	81	"	"	5	"					
4	6	4	"	"	5		29.90	74	75	72	76	"	Cum	5	"					
5	6	8	"	"	5		29.90	74	74	72	76	"	"	5	"					
6	6	8	"	"	5		29.89	74	74	72	75	"	"	8	"		All plain sail			
7	6	5	"	"	5		29.89	74	74	72	755	"	"	8	"					
8	6	2	"	"	5		29.89	74	74	72	76	"	"	9	"					
9	2	7	SW	"	3		29.94	74	74	72	75	"	"	9	"					
10	4	6	"	"	3		29.94	74	74	72	74	"	"	9	"					
11	3	7	"	"	2		29.94	74	74	72	74	"	"	9	"					
Mid.	2	9	"	"	2		29.94	74	73	72	75	"	"	9	"		All plain sail			
Longitude by Chronometer from Afternoon Observations ⊕												°	'							
Longitude by Chronometer Observations												°	'							
Variation of the Compass by Amplitude												observed at Sunset		°	'					
Variation of the Compass by												at		°	'					

under the command of Commander Winfield Scott Schley, U. S. Navy.
Montevideo, Uruguay. Tuesday February 26th, 1878.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Cloudy and threatening. Moderate and fresh breeze from S. E. by S. and S. S. E. Barometer falling slowly. Sea smooth. Density of sea water 26. Fires banked in two boilers. Distilling.

(Signed) Clinton K. Curtis
Lieut.

From 4 to 8 A.M. Cloudy. Cool. Pleasant. Stiff S. E. by S. breeze. Cir. Cum. Nimb. clouds. High dawn. At 7.35 set close reefed mainsail and took in M. try sail. Density of sea water 26. Fires banked in two boilers. Steam pressure 25 lbs. Distilling.

(Signed) Samuel C. Lemly
Ensign.

From 8 to Merid. Pleasant. Clear. Gentle to moderate breeze from S. E. by S. and S. S. E. Sea smooth. At 8.20 crossed royal yards. At 8.30 set royals. At 8.45 took in spanker and F.T.M.S.S, unbent them and bent new sails. At 10 set F. jib and F.T.M.S.S. At 10.30 set spanker and gaff topsail. At 9.15 inspected at quarters. Exercised companies at infantry. Fires banked in two boilers. Steam pressure 25 lbs. Distilling. Density of sea water 26.

(Signed) Charles B. T. Moore
Ensign.

From Merid. to 4 P.M. Clear and pleasant. Moderate breeze from S. E. increasing to a fresh breeze last hour of watch. Cir Cum clouds. Light scud passing to S. E. Close hauled, port tack, steering S. W. by S. One sail in sight, standing to S. W, on port beam. Sea smooth. Fires banked in two boilers. Distilling. Density of sea water 25. Unbent M. try sail and unbent an old sail. At 12.20 got soundings, 30 fathoms, mud. Altered course to S. W. by S. at 12.30.

(Signed) James K. Cogswell
Lieut.

From 4 to 6 P.M. Partially cloudy. Pleasant. Fresh breeze from S. E. Sea smooth. Barometer steady. Density of sea water 25. Fires banked in two boilers. Distilling. At 6 got cast of the lead in 26 fathoms, fine white sand.

(Signed) Clinton K. Curtis
Lieut.

From 6 to 8 P.M. Clear. Pleasant. Stiff breeze from S. E. At dark brig four points abaft port beam. At 7.30 got cast of deep sea lead in 24 fathoms, yellow sand. At sunset mustered at quarters. Fires banked in two boilers. Steam pressure 25 lbs. Distilling. Density of sea water 25.

(Signed) Samuel C. Lemly
Ensign.

From 8 to Midnight. Clear and pleasant. Gentle breeze from S. E. gradually falling to light breeze. Sea smooth. At 8.30 changed course to S. W. Got cast of lead each hour. Bottom at 9, 23 fathoms, yellow sand. At 10, 25 fathoms, black mud. At 11, 27 fathoms, black mud. AT 12, 27 fathoms, soft mud. Fires banked in two boilers. Steam pressure 25 lbs. Distilling. Density of sea water 25.

(Signed) Charles B. T. Moore
Ensign.

Moon Phase, Last Qr, Dec. S. 23 °.

Examined and found to be correct

(Signed) Asa
Walker, Lieut
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, On passage from St. Catherine, Brazil, to

Hour.	Knots. Tenths Fathoms.		WINDS.			BAROMETER.		TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
			Courses steered.	Direction.	Force.	Height in inches.	Ther. at'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A,M															
1	2	6	SW	SE	2	29.89	74	73	72	75	bc	Cum	9	S	
2	1	8	"	E	2	29.89	74	73	72	75	"	"	9	"	
3	1	8	"	"	2	29.88	74	73	71	75	b	None	10	"	
4	1	7	"	"	2	29.86	74	73	71	75	"	"	10	"	
5	1	3	"	"	2	29.87	74	73	72	75	bc	Cum	9	"	
6	1	3	"	"	2	29.87	74	73	72	75	"	"	8	"	
7	1	3	"	"	2	29.90	74	74	72	74	"	"	8	"	
8	1	5	"	"	2	29.90	74	74	72	74	"	"	8	"	
9	1	0	SW 1/2 W	"	2	29.92	74	75	72	74	"	"	8	"	
10	2	8													
11	2	7	"	"	2	29.95	75	77	75	74	"	"	9	"	
Noon	3	0	"	"	2	29.93	77	77	75	76	"	"	9	"	All plain sail

Distance run by Log since preceding Noon	88 knots	9 tenths fathoms.
Latitude by D. R. at Noon	S. 34 °	16 ' 24 "
Longitude by D. R. at Noon	W. 52 °	38 ' 35 "
Latitude by Observations at Noon ⊕	S. 34 °	13 ' 09 "
Longitude by Chronometer from Forenoon Observations ⊕	W. 52 °	46 ' 18 "
Current during the time	knots	fms. per hour, setting to the
Variation of the Compass by Amplitude ⊕ observed at Sunrise		
Variation of the Compass by Azimuth ⊕ observed at 7.30 A.M. Lat.S.34°07' Long.W.52° 35'	E.7 °	10 " "
Water expended during the preceding 24 hours		250 gallons
Water Condensed during the preceding 24 hours		900 "
Water remaining on hand fit for me at Noon		2500 "
Coal consumed during the preceding 24 hours	1 tons	290 lbs.
Coal remaining on hand at Noon	95 "	1230 "

P,M	Tenths														
1	2	8	SW 1/2 W	East	2	29.93	75	79	76	76	bc	Cir Cum	9	S	
2	2	5	"	"	2	29.93	76	79	77	76	"	"		"	
3	2	3	"	"	2	29.93	75	79	77	77	"	"		"	
4	2	9	"	"	2	29.92	75	78	77	77	"	"		"	All plain sail
5	4	2	"	ENE	3	29.90	75	77	75	77	"	"		"	
6	4	8	"	"	3	29.90	75	77	76	77	"	"		"	
7	5	0	"	NE	4	29.89	74	76	74	77	"	Cum		"	
8	5	0	"	"	4	29.89	74	76	74	77	"	"		"	
9	0	5	sw 1/4 s	"	4	29.92	75	76	73	75	"	"		"	
10	4	5													
11	4	6	"	"	4	29.92	75	75	72	75	"	"		"	
Mid.	4	6	"	"	4	29.93	75	75	72	75	"	"		"	

Longitude by Chronometer from Afternoon Observations ⊕	°	'	"
Longitude by Chronometer Observations	°	'	"
Variation of the Compass by Amplitude	°	'	"
Variation of the Compass by	°	'	"

under the command of Commander Winfield Scott Schley, U. S. Navy.
Montevideo, Uruguay. Wednesday February 27th, 1878.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear and pleasant. Light breeze from S. E. first hour, last three hours E. Sea smooth. Ground swell strong to S. W. Took a sounding every hour, bottom at 30 fathoms first three hours, 35 fathoms last hour, soft mud. Passed a steamer standing to N. E. Moon rose at 1.15. Fires banked in two boilers. Distilling. Density of sea water 24.

(Signed) James K. Cogswell
Lieut.

From 4 to 8 A.M. Clear and pleasant. Light breeze from E. Sea smooth. Barometer rising slowly. Got cast of lead at 5 and 6, in 38 1/2 and 39 fathoms, bottom blue mud. Exchanged colors with a French steamer standing to N. E. Two sail in sight at end of watch. Density of sea water 25. Fires banked in two boilers. Distilling.

(Signed) Clinton K. Curtis
Lieut.

From 8 to Merid. Clear. Warm. Light E[aster]ly breeze. Cumulus clouds. At 9.15 inspected at quarters. Exercised 1st Div. great guns, 2nd Div. transporting guns, Powder Div, stations. School of porpoises passed the ship. At 8.40 changed course to S. W. 1/2 W. Passed through water discolored by small floating particles. Brig in sight during whole watch, bore at end of watch (pc) S. by W. Density of sea water 26. Fires banked in two boilers. Steam pressure 25. Distilling. At 12 got a cast of the lead in 33 fathoms, bottom blue mud.

(Signed) Samuel C. Lemly
Ensign.

From Merid. to 4 P.M. Clear. Pleasant. Light breeze from E. Sea smooth. On course S. W. 1/2 W. Fires banked in two boilers. Steam pressure 25 lbs. Distilling. Density of sea water 24.

(Signed) Charles B. T. Moore
Ensign.

From 4 to 6 P.M. Clear and pleasant. Moderate breeze from E. N. E. Sea smooth. Cir. Cum. clouds. At 6 got a cast of the lead in 21 fathoms, mud. Fires banked in two boilers. Distilling. Density of sea water 25.

(Signed) James K. Cogswell
Lieut.

From 6 to 8 P.M. Clear and pleasant. Moderate breeze from N. E. Sea smooth. Barometer steady. At 6.50 squared away and hauled up mainsail. At 8 got cast of the lead in 18 fathoms, bottom fine grey sand. Density of sea water 25. fires banked in two boilers. Distilling.

(Signed) Clinton K. Curtis
Lieut.

From 8 to Midnight. Clear. Cool. Pleasant. Moderate N. E. breeze. Cumulus clouds. At 8.06 sounded call to general quarters. Times as follows. Nav. Div. 2 m, Eng. Div. 2 m 30 s, Marine 3 m 15 s, Powder Div. 3 m 30 s, 2nd Div. 5 m 15 s, 1st Div. 9 m 25 s. Secured at 8.22. Eng. 30 s, Powder Div. 2 m, Nav. Div. 2 m 15 s, Surgeons Div. 3 m, 2nd Div. 5 m, 1st Div. 6 m 15 s. Got cast of deep sea lead every hour in from 18 to 20 fathoms, bottom sand and shell. At 11.45 clewed down main royal and rounded to to main topsail to mast and took pilot on board. Fires banked in two boilers. Steam pressure 15 lbs. Hydrometer 24.

(Signed) Samuel C. Lemly
Ensign.

Moon Phase, Last Qr, Dec S. 19 °.

Examined and found to be correct

(Signed) Asa Walker,
Lieut
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Standing up the Rio de la Plata

Hour.				WINDS.			BAROMETER.			TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
	Knots.	Tenits	Fathoms.	Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. at'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A,M																	
1	4	8		SW by W	NNE	3		29.93	74	75	73	75	bc	Cum	9	S	Set main sail
2	5	2		"	NE	3		29.90	74	75	73	75	"	"	9	"	
3	5	0		"	NW	3		29.88	74	75	73	75	"	"	8	"	All plain sail
4	4	4		"	"	3		29.85	74	75	73	75	"	Cir Cum Nimb	6	"	Took in M. sail
5	5	2		"	"	3		29.85	74	74	73	75	"	"	1	"	
6	2	4		"	"	2		29.87	74	74	73	75	"	"	1	"	
7	4	5		"	"	3		29.85	73	74	73	75	"	"	1	"	Same, with steam
8	9	0		WSW	"	3		29.86	73	74	72	75	"	"	1	"	in six boilers
9	0	3		WSW	"	3		29.86	73	73	72	75	"	Cum	7	"	
10	6	0		W by S	"	3		29.88	73	73	72	75	"	"	7	"	Shortened and furled sail.
11				West	"	3		29.88	73	73	72	75	"	"	7	"	
Noon				Firing at target	"	3		30.00	74	75	74	75	"	"	7	"	
				Standing into Rio de la Plata	"	3		30.02	74	77	75	75	"	"	7	"	Fore and aft sail

[Note in left margin reads "Lat 35° 00' S. Long 54° 56' N.

Distance run by Log since preceding Noon	104 knots	9 fathoms.	
Latitude by D. R. at Noon	°	'	"
Longitude by D. R. at Noon	°	'	"
Latitude by Observations at Noon ⊕ by bearings	S. 35	° 01	' 00 "
Longitude by Chronometer from Forenoon Observations ⊕ by bearings	W. 54	° 58	' 30 "
Current during the time knots fms. per hour, setting to the			[Note on left margin reads "Sig No 590"]
Variation of the Compass by Amplitude ⊕ observed at Sunrise	°	"	"
Variation of the Compass by Azimuth ⊕ observed at	°	"	"
Water expended during the preceding 24 hours		250 gallons	
Water during the preceding 24 hours		"	
Water remaining on hand fit for me at Noon		2400	"
Coal consumed during the preceding 24 hours	7 tons	2030 lbs.	
Coal remaining on hand at Noon	87	" 1440	"

P,M																	
1	Standing up the Rio de la Plata under direction of Pilot	NW	2	29.99	78	80	77	bc	Cum	9	S	Steam alone					
2		W	1	29.97	78	82	79	"	"	9	"						
3		SW	1	29.99	78	84	81	"	"	9	"						
4		SSW	1	29.99	77	83	81	"	"	9	"						
5		ENE	4	29.99	77	83	81	"	Cir Cum	7	"						
6	At Anchor	"	2	29.95	78	81	79	"	"	5	"						
7	NE	NE	1-2	29.96	78	79	78	"	"	2	"						
8	NE by E	NE by E	1-2	29.98	78	79	78	"	"	7	"						
9	NE by N	NE by N	2-4	29.98	78	79	76	"	"	7	"						
10	"	"	4-5	29.98	78	79	76	"	"	7	"						
11	"	"	4-5	29.98	78	76	74	"	"	7	"						
Mid.	"	"	4-5	29.98	78	76	74	"	"	7	"						

Longitude by Chronometer from Afternoon Observations ⊕	°	'	"
Longitude by Chronometer Observations	°	'	"
Variation of the Compass by Amplitude observed at Sunset	°	'	"
Variation of the Compass by at	°	'	"

under the command of Commander Winfield Scott Schley, U. S. Navy.
Thursday February 28th, 1878.

[Editor's Note: The following was attached to the logbook entry for February 28th, 1878.]

Expended at target practice.

3 XI in shells, loaded and fired 5"
12 IX in " " " " 5"
3 60 Pdr Rifle " " " 5"
3 15 lb charged cannon powder for XI in
12 10 " " " " " IX in
3 6 " " " " " 60 Pdr.
3 Cartridge bags XI in 15 lbs
12 " " IX in 10 lbs
3 " " 60 Pdr, 6 lbs
50 Primer Quill.

(Signed) Asa Walker
Lieut. Ord. Officer.

under the command of Commander Winfield Scott Schley, U. S. Navy.
Thursday February 28th, 1878.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear. Pleasant. Gentle breeze from N. N. E. shifting to N. and N. W. At 12 filled away. Changed course to S. W. by W. At 1 got cast of lead in 23 fathoms, bottom mud. At 1.08 sighted Santa Maria Light bearing (pc) W. 1/2 N. At 3 shook out reefs and furled mainsail. Hoisted smoke stack. Started fires in four boilers at 3. At end of watch Santa Maria Light bore (pc) N. W. 1/2 N.

(Signed) Charles B. T. Moore
Ensign.

From 4 to 8 A.M. Cloudy and damp. Moderate breeze which became light at 6 and freshened again at 6.30. Sea smooth. At 6.45 started ahead under steam with sail. At 7 changed course to W. S. W. At 5 dropped St. Maria Light which bore North. At daylight made land along starboard beam. Barometer rising; between 6 and 7 o'clock rose .08 inch. Density of sea water 25. Set main try sail. Pilot aboard.

(Signed) James K. Cogswell
Lieut.

From 8 to Merid. Clear. Warm and pleasant. Gentle breeze from N. W. Sea smooth. Barometer rising. At 8.55 stopped engine to slack up on crank pin of high pressure engine. At 9.15 started ahead. At 9.40 shortened and furled all sail. At 9.45 went to general quarters and exercised at target practice, firing 3 rounds. Carried away two breechings at No 1 and 2 guns starbd. And broke on battle axe handle. At 11 started ahead under direction of pilot. At 11.20 set fore and aft sail. Steaming with six boilers. Density of sea water 25.

(Signed)

From Merid. to 4 P.M. Clear. Warm. Light breeze to light airs from N. W. to S. S. W. Unbent F. jib, gaff topsail and F. T. M. S. S. stowed them away. Engaged in scraping spars. At 2.30 sighted Flores Island (pc) W. by N. At end of watch Flores Island bore (pc) W. by N. Steaming under six boilers. Steam pressure 58 lbs. Revolutions 54.

(Signed) Samuel C. Lemly
Ensign.

From 4 to 6 P.M. Clear. Warm. Moderate breeze from E. N. E. falling to light breeze. Steaming in for Flores Island. At 5.15 came to anchor in 5 1/2 fathoms water, with port anchor, veering to 45 fathoms chain. Light House Flores Island bearing (pc) E. S. E. distant one mile. Banked fire. Health Officer visited the ship and placed ship in quarantine. Draught forward 13 feet 9 in. Amidship 14 feet 10 in. Aft 15 feet 11 in.

(Signed) Charles B. T. Moore
Ensign.

From 6 to 8 P.M. Cloudy and pleasant. Light air from N. E. by E. Riding to flood tide. At 8 tide logged .8 knots. Fires banked. Distilling.

(Signed) James K. Cogswell
Lieut.

From 8 to Midnight. Clear and cool. Moderate breeze, with fresh puffs, from N. E. by N. Ship riding to wind. Flood tide at 8.30. Hauled fires in four boilers. Fires banked in two boilers. Distilling.

(Signed) Clinton K. Curtis
Lieut.

Moon Phase, Last Qr, Dec, S. 20 °.

Examined and found to be correct

(Signed) Asa Walker,
Lieut
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Off Flores Island, Rio de la Plata

Hour.	Knots. Tenths Fathoms.	WINDS.			BAROMETER.			TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
		Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. at'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.				
A,M														
1	Flood	NE	NE	4		29.99	74	74	73		bc	Cir Cum	9	S
2		"	"	4		29.97	74	74	73		"	"	8	"
3	2	"	"	4		29.96	73	74	73		"	"	9	"
4		NNE	"	3		29.96	73	73	73		"	"	9	"
5		"	NNE	4		29.96	73	73	72		"	Cum Str Cir Cum	9	"
6		"	N	3		29.98	73	73	72		"	"	4	"
7		"	"	3		29.99	75	72	72		"	"	6	"
8	2	N by E	"	3		29.99	76	74	73		"	"	6	"
9		NNE	"	3		29.99	77	76	75		"	"	9	"
10		"	"	3		29.99	77	79	78		"	"	6	"
11		"	"	2		29.98	77	81	79		"	"	9	"
Noon	2	"	"	2		29.98	78	82	80		"	"	6	"

Record of the sail the vessel is
under at end of watch.

Distance run by Log since preceding Noon	knots	fathoms.
Latitude by D. R. at Noon	0	"
Longitude by D. R. at Noon	0	"
Latitude by Observations at Noon ⊕	0	"
Longitude by Chronometer from Forenoon Observations ⊕	0	"
Current during the time knots fms. per hour, setting to the		
Variation of the Compass by Amplitude ⊕ observed at Sunrise	0	"
Variation of the Compass by Azimuth ⊕ observed at	0	"
Water expended during the preceding 24 hours		250 gallons
Water Condensed during the preceding 24 hours		500 "
Water remaining on hand fit for me at Noon		2700 "
Coal consumed during the preceding 24 hours		tons 1790 lbs.
Coal remaining on hand at Noon	86	" 1890 "

P,M	Tenths													
1		NNE	SSW	2		29.97	78	82	80		bc	Cir Cum	6	S
2	2	N	ESE	2		29.97	78	82	80		"	"	6	"
3		NE by N	"	2		29.95	78	82	80		"	"	6	"
4		NE	SE	2		29.93	78	82	80		"	"	6	"
5		NE by N	ESE	1		29.93	79	82	81		"	"	8	"
6		"	"	1		29.92	78	81	80		"	"	9	"
7		NE by E	E by N	1		29.90	79	81	79		"	"	9	"
8		"	"	2		29.90	79	81	79		"	"	9	"
9		"	"	2		29.94	78	78	76		"	"	9	"
10		NE	"	2		29.94	78	78	76		b	None	10	"
11	5	"	NE	2		29.94	79	78	76		"	"	10	"
Mid.		NNE	"	2		29.94	78	78	76		"	"	10	"

Longitude by Chronometer from Afternoon Observations ⊕	0	"	"
Longitude by Chronometer Observations	0	"	"
Variation of the Compass by Amplitude observed at Sunset	0	"	"
Variation of the Compass by at	0	"	"

under the command of Commander Winfield Scott Schley, U. S. Navy.
Friday March 1st, 1878.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear. Cool. Moderate N. E. breeze. Cir. Cum. clouds. Bright starlight. Current .2 knots. At 3.25 moon rose. Fires banked in two boilers. Steam pressure 25 lbs. Distilling.

(Signed) Samuel C. Lemly
Ensign.

From 4 to 8 A.M. Clear and pleasant. Cool. Moderate to gentle breeze from N. N. E. and N. Fires banked in two boilers. Steam pressure 25 lbs. Distilling. Current at 0.2 knots. Lowered smoke stack.

(Signed) Charles B. T. Moore
Ensign.

From 8 to Merid. Clear and pleasant. Gentle to light breeze from N. Cir. Cum. clouds. Riding to current. Current at 12, .2 knots. Hoisted ships number. Strapped and sabotaged 23 shells. Sent some mail matter to Uruguayan gunboat, requesting that it be forwarded to U.S.S. "Hartford". Fires banked in two boilers.

(Signed) James K. Cogswell
Lieut.

From Merid. to 4 P.M. Clear and warm. Light breeze from S. S. W. shifting to E. S. E and S. E. Barometer falling slowly. Ship riding to flood tide. Filled and fuzed 17 IX in, 6 XI in, and 6 60 Pdr. Shells. Condemned and turned into slush, one keg scrapings and leavings of butter.

(Signed) Clinton K. Curtis
Lieut.

From 4 to 6 P.M. Clear. Warm. Light E. S. E. airs. Cir. Cum. clouds. A large steamer passed up the river, showing no colors.

(Signed) Samuel C. Lemly
Ensign.

From 6 to 8 P.M. Clear and pleasant. Light airs to light breeze from E. by N.

(Signed) Charles B. T. Moore
Ensign.

From 8 to Midnight. Clear and pleasant. Light breeze from E. by N. shifting to N. No clouds last three hours of watch. Current at 10, .5 knots.

(Signed) James K. Cogswell
Lieut.

Moon Phase, Last Qr, Dec S. 15 °.

Examined and found to be correct

(Signed) Asa Walker,
Lieut
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Off Flores Island, Rio de la Plata

Hour.	Knots.	Tenths Fathoms.	WINDS.			BAROMETER.		TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
			Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. at'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.			
A,M														
1			NNE	NNE	1-2		29.93	77	77	76		bc	Cum	9 S
2			"	"	1-2		29.93	77	77	76		"	"	9 "
3			NE	N	2		29.93	77	76	75		"	"	9 "
4			"	"	2-3		29.92	77	75	73		"	"	9 "
5			N by W	"	3		29.93	75	74	72		"	"	9 "
6			"	"	3		29.94	74	74	72		"	"	9 "
7	2		"	"	3		29.94	73	74	72		"	"	9 "
8			"	"	3		29.94	74	76	74		"	"	9 "
9			NNW	NW by N	2		29.94	76	80	78		"	"	9 "
10			NW	"	1		29.95	76	82	81		"	Cir Cum	9 "
11			SW by S	SE by E	1		29.95	78	83	82		"	"	9 "
Noon	2		SSW	"	1		29.98	78	83	82		"	"	9 "

Record of the sail the vessel is
under at end of watch.

Distance run by Log since preceding Noon knots fathoms.

Latitude by D. R. at Noon ° ' "

Longitude by D. R. at Noon ° ' "

Latitude by Observations at Noon ⊕ ° ' "

Longitude by Chronometer from Forenoon Observations ⊕ ° ' "

Current during the knots fms. per hour, setting to the time

Variation of the Compass by Amplitude ⊕ observed at Sunrise ° " "

Variation of the Compass by Azimuth ⊕ observed at ° " "

Water expended during the preceding 24 hours 300 gallons

Water during the preceding 24 hours "

Water remaining on hand fit for me at Noon 2300 "

Coal consumed during the preceding 24 hours tons 250 lbs.

Coal remaining on hand at Noon 86 " 1640 "

P,M	Tenths												
1		SW by W	SSE	1	29.94	80	83	81		bc	Cir Cum	9	S
2		SE by E	S	1	29.91	80	83	81		"	"	8	"
3		"	"	1	29.90	80	82	80		"	"	8	"
4		"	"	1	29.89	80	82	80		"	"	8	"
5		S by E	"	2	29.89	80	82	80		"	"	4	"
6		SE	E by S	2-3	29.89	79	82	80		"	Cum Nimb	2	"
7	3	E by S	ENE	4	29.87	79	79	77		Bcl	"	3	"
8		NE	"	4	29.87	79	79	77		"	"	5	"
9		NE by E	E	3	29.90	78	79	77		bc	"	2	"
10		NNE	"	3	29.90	78	79	78		"	"	6	"
11		N by E	"	3	29.90	78	79	78		"	"	2	"
Mid.		N by W	NNE	5	29.90	78	79	78		"	"	1	"

Longitude by Chronometer from Afternoon Observations ⊕ ° ' "

Longitude by Chronometer Observations ° ' "

Variation of the Compass by Amplitude observed at Sunset ° ' "

Variation of the Compass by at ° ' "

under the command of Commander Winfield Scott Schley, U. S. Navy.
Saturday March 2nd, 1878.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear, atmosphere very damp. Light airs from N. N. E. shifting to N. and increasing to gentle breeze. Flood tide. Sea smooth. Barometer steady.

(Signed) Clinton K. Curtis
Lieut.

From 4 to 8 A.M. Clear. Pleasant. Light N[orther]ly breeze. Cum. clouds. A small German brigantine came and anchored. Engaged in painting ship outside.

(Signed) Samuel C. Lemly
Ensign.

From 8 to Merid. Clear. Warm. Light airs from N. W. by N. shifting to S. E. by E. Engaged in painting ship inside. Boatswain F. A. Dran was placed under suspension for disrespectful conduct to Officer of the Deck, by order of Commanding Officer. Thomas Jones (Coopr.M.) was released from confinement, by order of Commanding Officer. Current at 12, .2 knots N. N. E.

(Signed) Charles B. T. Moore
Ensign.

From Merid. to 4 P.M. Clear and warm. Light airs from S. by W. first hour and from S. E. by E. last three hours of watch. Cir. Cum. clouds. Estimated average force of current .4 knots. English steamer "Hipporchens" arrived from Buenos Ayres and dipped her colors in passing. Engaged in painting ship inside.

(Signed) James K. Cogswell
Lieut.

From 4 to 6 P.M. Warm. Light to gentle breeze from S. shifting to E. by S. Barometer steady. Sea smooth. Finished painting ship inside.

(Signed) Clinton K. Curtis
Lieut.

From 6 to 8 P.M. Cloudy. Pleasant. Lightening to S. W. Moderate E. N. E. breeze. Cum Nimb clouds. Current about .3 knots, setting up the river.

(Signed) Samuel C. Lemly
Ensign.

From 8 to Midnight. Cloudy. Pleasant. Gentle breeze from E. first three hours, shifting to N. N. E. and freshening to stiff breeze last hour.

(Signed) Charles B. T. Moore
Ensign.

Moon Phase, last Qr, Dec S. 5°.

(Signed) Asa Walker,
Lieut
Navigator.

Examined and found to be correct

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Off Flores Island, Rio de la Plata.

Hour.	Knots.	Tenths Fathoms.	WINDS.			BAROMETER.		TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
			Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. at'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.			
A,M														
1			NNW	N by W	4		29.90	78	79	78		oc	Cum Nimb	0 S
2			N by W	"	5		29.88	78	79	78		"	"	0 "
3			"	"	5		29.85	78	78	77		"	"	0 "
4			"	"	5-6		29.82	78	78	77		"	"	0 "
5			NNW	"	4		29.88	76	78	77		"	"	0 "
6			N by W	"	3		29.89	74	77	76		bc	"	1 "
7			"	"	3		29.89	76	77	75		"	"	2 "
8			N	"	2		29.89	77	77	76		"	"	3 "
9			N by W	"	0-1		29.93	78	79	78		"	"	5 "
10			"	W	0-1		29.96	78	82	80		"	"	8 "
11			E by S	S	1		29.96	78	82	80		"	"	7 "
Noon	2		SE	SE	2		29.95	79	82	80		"	"	8 "

Record of the sail the vessel is
under at end of watch.

Distance run by Log since preceding Noon knots fathoms.

Latitude by D. R. at Noon ° ' "

Longitude by D. R. at Noon ° ' "

Latitude by Observations at Noon ⊕ ° ' "

Longitude by Chronometer from Forenoon Observations ⊕ ° ' "

Current during the knots fms. per hour, setting to the time

Variation of the Compass by Amplitude ⊕ observed at Sunrise ° " "

Variation of the Compass by Azimuth ⊕ observed at ° " "

Water expended during the preceding 24 hours 300 gallons

Water during the preceding 24 hours "

Water remaining on hand fit for me at Noon 1900 "

Coal consumed during the preceding 24 hours tons 250 lbs.

Coal remaining on hand at Noon 86 " 1390 "

P,M	Tenths													
1		SE	ESE	3		29.95	80	82	80		bc	Cir Cum	8	S
2		SE by S	"	3		29.95	80	82	81		"	"	8	"
3		SE	E	3		29.90	80	83	81		"	"	8	"
4	4	"	"	3		29.90	80	83	81		"	"	9	"
5		ESE	ESE	4-5		29.91	79	82	80		"	"	9	"
6		NE by E	ENE	4-5		29.93	80	80	79		"	"	9	"
7		N	E	4		29.94	78	80	78		"	"	8	"
8		N by E	"	4		29.94	78	80	78		"	"	8	"
9		NNE	NE by E	4		29.93	78	79	79		"	"	8	"
10		"	"	4		29.95	78	79	79		"	"	9	"
11		"	"	3		29.95	78	78	79		"	"	9	"
Mid.	3	"	"	3		29.95	78	78	79		"	"	9	"

Longitude by Chronometer from Afternoon Observations ⊕ ° ' "

Longitude by Chronometer Observations ° ' "

Variation of the Compass by Amplitude observed at Sunset ° ' "

Variation of the Compass by at ° ' "

under the command of Commander Winfield Scott Schley, U. S. Navy.
Sunday March 3rd, 1878.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Overcast and cool. Damp. Moderate breeze fro N. by W. increasing during watch, latter part, to a fresh breeze. Cum. Nimb. clouds. Barometer falling slowly.

(Signed) James K. Cogswell
Lieut.

From 4 to 8 A.M. Cloudy. Pleasant. Moderate breeze from N. by W. decreasing to light breeze at end of watch. Barometer steady. Uruguayan gunboat got underway and steamed out during watch.

(Signed) Clinton K. Curtis
Lieut.

From 8 to Merid. Clear. Warm. Light airs from N. by W. to S. E. Ship swinging to the breeze. At 9.40 Commanding Officer inspected ship and crew at quarters and afterwards read prayers. Read Articles for the Government of the Navy, and mustered crew. Royal Mail Steamer "Mondego" came down and anchored. A small Uruguayan gunboat came down and anchored. Current about .2 knots up river. By order of commander, Boatswain F. A. Dran was released from suspension and restored to duty.

(Signed) Samuel C. Lemly
Ensign.

From Merid. to 4 P.M. Clear and pleasant. Gentle breeze from E. S. E. shifting to E. The regular board of survey, surveyed a barrel of pork and condemned it to be thrown overboard. Current at 4, .2 knots.

(Signed) Charles B. T. Moore
Ensign.

From 4 to 6 P.M. Clear and pleasant. Fresh breeze from E. N. E. last hour, from E. S. E. first hour. Riding to flood.

(Signed) James K. Cogswell
Lieut.

From 6 to 8 P.M. Clear and pleasant. Moderate breeze from E. Barometer rising slowly. Ebb tide. Received in Pay Department 160 lbs fresh beef and 180 lbs vegetables.

(Signed) Clinton K. Curtis
Lieut.

From 8 to Midnight. Clear. Cool. Pleasant. Moderate N. E. breeze. Bright starlight. Current about .3 knots.

(Signed) Samuel C. Lemly
Ensign.

Moon Phase, New Moon, Dec S. 5°.

(Signed) Asa Walker,
Lieut
Navigator.

Examined and found to be correct

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Off Flores Island, Rio de la Plata

Hour.	Knots.	Tenths Fathoms.	WINDS.			BAROMETER.		TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
			Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. attd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.			
A,M														
1			N by E	NE	4		29.93	78	77	75	bc	Cum	9	S
2			"	"	5		29.92	76	76	75	"	"	9	"
3			NNE	"	5		29.94	76	76	75	"	"	9	"
4	2		N by E	"	4		29.95	76	76	75	"	"	9	"
5			"	"	4		29.97	75	75	74	bcl	Cum Str	9	"
6			"	"	3-4		29.97	75	76	75	bc	Cir Cum	8	"
7			NE	"	2		29.97	76	76	75	"	"	6	"
8			NE by N	"	2		29.99	76	78	77	"	"	1	"
9			NE	"	2		29.99	76	79	77	"	"	3	"
10	2		"	"	2		29.98	79	82	80	"	"	5	"
11			"	"	2		29.96	80	83	80	"	"	5	"
Noon			"	"	2		29.96	80	83	80	"	"	5	"

Record of the sail the vessel is
under at end of watch.

Distance run by Log since preceding Noon	knots	fathoms.
Latitude by D. R. at Noon	0	"
Longitude by D. R. at Noon	0	"
Latitude by Observations at Noon ⊕	0	"
Longitude by Chronometer from Forenoon Observations ⊕	0	"
Current during the time	knots	fms. per hour, setting to the
Variation of the Compass by Amplitude ⊕ observed at Sunrise	0	"
Variation of the Compass by Azimuth ⊕ observed at	0	"
Water expended during the preceding 24 hours		300 gallons
Water during the preceding 24 hours		"
Water remaining on hand fit for me at Noon		1500 "
Coal consumed during the preceding 24 hours	tons	250 lbs.
Coal remaining on hand at Noon	86	" 1140 "

P,M	Tenths												
1		NE	NE by E	2	29.	79	82	80	bc	Cir Cum Nimb	1	S	
2		ENE	ESE	2	29.	78	82	80	bct	"	1	"	
3	2	ESE	"	3	29.	78	81	79	bctlr	"	1	"	
4		WSW	N	4-7	29.	77	77	76	ortq	Nimb	0	"	
5		"	SE by S	2	29.	76	78	77	bc	Cum Nimb	1	M	
6		NE by E	E by S	4	29.	76	78	77	bclq	"	1	S	
7		ENE	E by N	4	29.	76	77	76	"	"	1	"	
8		"	"	4-5	29.	76	79	76	"	"	7	"	
9		NNE	NNE	3-4	29.	77	77	76	"	"	4	"	
10		"	"	3-4	29.	77	77	76	"	"	3	"	
11		"	"	3-4	29.	77	78	77	"	"	4	"	
Mid.		"	"	2-3	29.	77	78	77	"	"	5	"	

Longitude by Chronometer from Afternoon Observations ⊕	0	"
Longitude by Chronometer Observations	0	"
Variation of the Compass by Amplitude	0	"
Variation of the Compass by	0	"
at		"

under the command of Commander Winfield Scott Schley, U. S. Navy.
Monday March 4th, 1878.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear. Cool. Damp. Moderate to stiff breeze from N. E. Bright starlight. Current at 4, .2 knots.

(Signed) Charles B. T. Moore
Ensign.

From 4 to 8 A.M. Clear first part, cloudy latter part of watch. Moderate breeze first two hours, light last two. Cir. Cum. clouds. Riding to the flood. Lightening in horizon to N. W. first hour of watch.

(Signed) James K. Cogswell
Lieut.

From 8 to Merid. Partially cloudy. Pleasant. Light breeze from N. E. Barometer falling slowly. At 9.15 went to general quarters. Time. Casting loose. 1st Div. 7 m 25 s, Powder Div. 7 m 35 s, 2nd Div. 8 m 50 s, Nav. Div. 1 m 15 s. Secured. 1st Div. 6 m 25 s, Powder Div. 4 m 10 s. Nav. Div. 1 m 10s. Dismounted No 2 gun starboard and port. Overhauled battery.

(Signed) Clinton K. Curtis
Lieut.

From Merid. to 4 P.M. Cloudy. Thunder and lightening. Light breeze from N. E. by E. to E. S. E. Raining latter part of watch. Cir. Cum. Nimb. clouds. At 3 Belgian Steamer "Tycho Brahe" came in and anchored. At 3.20 moderate squall with rain, lasting remainder of watch.

(Signed) Samuel C. Lemly
Ensign.

From 4 to 6 P.M. Cloudy. Raining, with thunder and lightening first hour. Light to moderate breeze from S. E. by S. and E. by S. At 5 Belgian steamer went out.

(Signed) Charles B. T. Moore
Ensign.

From 6 to 8 P.M. Cloudy and pleasant. Damp. Lightening to the N. E. Stiff breeze from E. by N. Squally. Cum. Nimb. clouds. Barometer falling slowly.

(Signed) James K. Cogswell
Lieut.

From 8 to Midnight. Partially cloudy. Pleasant. Moderate breeze from N. N. E. decreasing to light breeze by end of watch. Barometer falling. Lightening around horizon to N. W.

(Signed) Clinton K. Curtis
Lieut.

Moon Phase, 1st Qr, Dec N. 1 °.

Examined and found to be correct

(Signed) Asa Walker,
Lieut
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Off Flores Island, Rio de la Plata

Hour.	Knots.	Tenths Fathoms.	WINDS.			BAROMETER.		TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
			Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. attd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.			
A,M														
1			N by E	NE	1-2		29.89	76	78	76	bc	Cum Nimb	7	S
2			"	"	1-2		29.92	76	78	76	bcl	"	8	"
3		3	NNE	NE by E	1-2		29.92	76	78	76	bc	"	8	"
4			"	"	2		29.93	76	78	76	"	"	8	"
5			NE by N	E by N	4		29.93	76	78	76	"	"	2	"
6			"	NE	3		29.95	76	77	76	"	"	2	"
7			"	"	3		29.95	76	77	76	"	"	3	"
8			"	NE by N	2		29.96	76	77	76	"	"	4	"
9			NNE	NNE	1		29.95	76	78	77	"	"	1	"
10			"	"	1		29.95	76	79	78	"	"	1	"
11			"	"	1		29.95	76	80	79	"	"	1	"
Noon			"	"	1		29.95	76	81	80	"	"	1	"

Record of the sail the vessel is
under at end of watch.

Distance run by Log since preceding Noon	knots	fathoms.
Latitude by D. R. at Noon	°	' "
Longitude by D. R. at Noon	°	' "
Latitude by Observations at Noon ⊕	°	' "
Longitude by Chronometer from Forenoon Observations ⊕	°	' "
Current during the time	knots	fms. per hour, setting to the
Variation of the Compass by Amplitude ⊕ observed at Sunrise	°	" "
Variation of the Compass by Azimuth ⊕ observed at	°	" "
Water expended during the preceding 24 hours		300 gallons
Water during the preceding 24 hours		"
Water remaining on hand fit for me at Noon		1200 "
Coal consumed during the preceding 24 hours	tons	250 lbs.
Coal remaining on hand at Noon	86	" 890 "

P,M	Tenths											
1	Ebb	NNE	NE	1-2	29.96	80	83	82	bc	Cir Cum Str	3	S
2	Slack	NE by E	SE by S	2	29.95	79	83	81	"	"	3	"
3		E	ESE	2	29.95	79	82	81	"	"	4	"
4		"	"	2	29.96	79	82	81	"	"	4	"
5		ENE	"	3	29.96	78	81	80	"	"	6	"
6	2	E	"	3	29.94	78	81	80	"	"	7	"
7		NE	ENE	1	29.90	77	81	80	"	"	8	"
8	2	NNE	"	2	29.90	77	81	80	"	"	9	"
9		"	NE	1	29.93	80	81	80	"	"	9	"
10		"	"	3	29.93	80	81	80	"	"	9	"
11		NW by N	"	4	29.94	78	81	80	"	"	9	"
Mid.	6	NW by W	"	4	29.94	78	80	79	"	"	8	"

Longitude by Chronometer from Afternoon Observations ⊕	°	' "
Longitude by Chronometer Observations	°	' "
Variation of the Compass by Amplitude observed at Sunset	°	' "
Variation of the Compass by at	°	' "

under the command of Commander Winfield Scott Schley, U. S. Navy.
Tuesday March 5th, 1878.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear. Cool. Pleasant. Light N. E. breeze. Lightening during the middle of watch to N. W. Cum. Nimb. clouds. Bright starlight. Current about .3 knots to S.

(Signed) Samuel C. Lemly
Ensign.

From 4 to 8 A.M. Cloudy. Cool. Pleasant. Moderate breeze from E. by N. shifting to N. E. by N. and falling to light breeze. A Danish brig and a German steamer, the Valparaico, of Hamburg, came in anchored.

(Signed) Charles B. T. Moore
Ensign.

From 8 to Merid. Cloudy and warm. Light airs from N. N. E. At 9.15 inspected at quarters. Exercised companies A. and B. at infantry and howitzer crew at howitzer drill. By order of Commander the following punishments were assigned. Michael Cleary (2r Gr) for disrespect in deportment to Officer of the Deck, was confined to berth deck. David Kearns (Lds) for refusing to obey order of the machinist, 4 hours extra duty. J. Kallenback (O.S.) very slow and indifferent at exercises and repeatedly answering back disrespectfully, 4 hours extra duty.

(Signed) James K. Cogswell
Lieut.

From Merid. to 4 P.M. Partially cloudy. Warm and pleasant. Light breeze from N. E. shifting to S. E. by S. and E. S. E. Barometer falling slowly. Commenced to swing to flood at 2. Engaged in painting starboard side and in touching up spots on lower and topsail yards.

(Signed) Clinton K. Curtis
Lieut.

From 4 to 6 P.M. Clear. Warm. Gentle breeze from E. S. E. Cir. Cum. Str. clouds. Current about .2 knots up river.

(Signed) Samuel C. Lemly
Ensign.

From 6 to 8 P.M. Clear and pleasant. Light airs to light breeze from E. N. E. Current .2 knots.

(Signed) Charles B. T. Moore
Ensign.

From 8 to Midnight. Clear and pleasant. Light airs first part, increasing to moderate breeze N. E. Riding across the tide, which logged .6 knots at 11.50 Current setting to E. by N.

(Signed) James K. Cogswell
Lieut.

Moon Phase, first Qr, Dec N. 6 °.

Examined and found to be correct

(Signed) Asa Walker,
Lieut
Navigator.

under the command of Commander Winfield Scott Schley, U. S. Navy.
Wednesday March 6th, 1878.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Cloudy. Damp. Moderate breeze from E.N.E. decreasing at times during watch to gentle breeze. Barometer falling slowly. Ship swung to ebb at 1.45

(Signed) Clinton K. Curtis
Lieut.

From 4 to 8 A.M. Cloudy. Pleasant. Moderate breeze from N. Cir. Cum. Nimb. clouds. A large German steamer, "Hohengollun", came in and anchored. Current 1.5 knots.

(Signed) Samuel C. Lemly
Ensign.

From 8 to Merid. Clear. Warm. Moderate to light breeze from N. and N. N. W. German steamer went out. A large English steamer came in and anchored. Michael Cleary (2r Gr) was released from confinement by order of Comdg. Officer.

(Signed) Charles B. T. Moore
Ensign.

From Merid. to 4 P.M. Cloudy and warm. Light breeze from N. E. Current at 3 setting to the N. E. force .3 knots. Cir. Cum. clouds. German steamer Valparaico went out. German steamer "Hohengollun" came down and anchored at 12.30 and left at 1.30. Riding to current. Started fires in two boilers for distilling.

(Signed) James K. Cogswell
Lieut.

From 4 to 6 P.M. Cloudy and warm. Light breeze from N. N. W. and N. N. E. Ship riding to flood. Barometer steady. Sea smooth. Fires under two boilers for condensing.

(Signed) Clinton K. Curtis
Lieut.

From 6 to 8 P.M. Cloudy. Warm. Light breeze from N.E. Cir. Cum. Nimb. clouds. Commenced distilling at 7.40. Fires banked in two boilers. Steam pressure 25 lbs. Current .9 knots.

(Signed) Samuel C. Lemly
Ensign.

From 8 to Midnight. Clear. Pleasant. Moderate breeze from N. N. E. first hour, shifting to N. E. and freshening to stiff breeze. Lightening in S. W. first two hours. Fires banked in two boilers. Steam pressure 25 lbs. Distilling. Riding across current.

(Signed) Charles B. T. Moore
Ensign.

Moon Phase, 1st Qr, Dec N. 11 °.

Examined and found to be correct

(Signed) Asa Walker,
Lieut
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Off Flores Island, Rio de la Plata

Hour.	Knots. Tenths Fathoms.	Courses steered.	WINDS.			Leeway.	BAROMETER.		TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
			Direction.	Force.			Height in inches.	Ther. at'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.				
A,M															
1	6	North	NNE	5-6		29.84	80	81	80		bcq	Cum Nimb	8	S	
2		"	"	5-6		29.82	80	80	79		"	"	5	"	
3		"	"	5-6		29.81	80	80	78		"	"	9	"	
4		"	"	5-6		29.81	80	79	78		"	"	8	"	
5	Ebb	"	N	5-6		29.80	78	78	76		"	"	2	"	
6		"	"	5		29.88	78	78	76		"	"	2	"	
7	5	"	"	4-5		29.89	77	78	76		"	"	2	"	
8		"	"	4-5		29.89	79	79	76		bc	Cir Cum	2	"	
9		N by E	N by E	4		29.87	79	81	78		"	"	5	"	
10		NNE	"	4		29.86	80	82	80		"	"	6	"	
11	3	"	"	3		29.85	80	82	81		"	"	7	"	
Noon		"	"	3		29.85	83	84	83		"	"	9	"	

Record of the sail the vessel is
under at end of watch.

Distance run by Log since preceding Noon	knots	fathoms
Latitude by D. R. at Noon	0	"
Longitude by D. R. at Noon	0	"
Latitude by Observations at Noon ⊕	0	"
Longitude by Chronometer from Forenoon Observations ⊕	0	"
Current during the time	knots	fms. per hour, setting to the
Variation of the Compass by Amplitude ⊕ observed at Sunrise	0	"
Variation of the Compass by Azimuth ⊕ observed at	0	"
Water expended during the preceding 24 hours		250 gallons
Water Condensed during the preceding 24 hours		400 "
Water remaining on hand fit for me at Noon		1100 "
Coal consumed during the preceding 24 hours	1 tons	730 lbs.
Coal remaining on hand at Noon	83 "	2190 "

P,M	Tenths											
1	NNW	NW	3	29.82	83	88	84	bc	Cir Cum	6	S	
2	"	"	4	29.81	83	88	84	"	"	5	"	
3	N by E	"	5	29.79	83	88	85	"	"	6	"	
4	"	NW by N	3	29.79	83	88	86	"	"	4	"	
5	N	WNW	3	29.81	84	86	84	bcu	"	2	"	
6	SW by S	SW by S	6-7	29.83	84	84	82	"	"	0	"	
7	SSW	SSW	6-7	29.82	82	82	80	bcl	"	2	"	
8	S by W	S by W	6-7	29.82	82	80	78	"	"	2	"	
9	S by E	"	6-7	29.82	80	80	78	"	"	4	"	
10	"	S by E	6-7	29.83	78	80	78	bcpl	"	2	"	
11	SSE	"	3-4	29.95	78	80	78	bcl	"	3	"	
Mid.	SE by S	"	3	29.95	78	80	78	or	"	0	"	

Longitude by Chronometer from Afternoon Observations ⊕	0	"	"
Longitude by Chronometer Observations	0	"	"
Variation of the Compass by Amplitude	0	"	"
Variation of the Compass by	0	"	"

observed at Sunset

at

under the command of Commander Winfield Scott Schley, U. S. Navy.
Thursday March 7th , 1878.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear and pleasant. Stiff to very fresh breeze from N. N. E.
Current .6 knots setting to the S. S. E. English Mail steamer got under way. Barometer falling
first part, steady last two hours. Fires banked in two boilers. Distilling.

(Signed) James K. Cogswell
Lieut.

From 4 to 8 A.M. Weather cloudy and disagreeable. Fresh breeze from N. moderating during
watch. Ebb tide. Barometer rising. Fires banked in two boilers. Distilling. Uruguayan gunboat
came down and anchored.

(Signed) Clinton K. Curtis
Lieut.

From 8 to Merid. Clear. Warm. Moderate falling to gentle breeze from N. by E. At 9.15 inspected
at quarters. Exercised companies A. and B. at single sticks and Marine Guard at small arms.
Fires banked in two boilers. Steam pressure 25 lbs. Distilling.

(Signed) Samuel C. Lemly
Ensign.

From Merid. to 4 P.M. Partially cloudy. Warm. Gentle to stiff breeze from N. W. and N. W. by N.
A Brazilian barque came in and anchored. Uruguayan gunboat got underway and stood up
towards Montevideo. Fires banked in two boilers. Steam pressure 25 lbs. Distilling.

(Signed) Charles B. T. Moore
Ensign.

From 4 to 6 P.M. Cloudy and pleasant. Cum. Nimb. clouds. At 4 barometer commenced to rise.
At 4 the sky to the S. and W. presented the appearance of a pampero. Heavy purple clouds
with ragged edges. Scud rising and passing to the N. E. At 5.30 pampero commenced to blow
from S. W. increasing gradually. Distilling.

(Signed) James K. Cogswell
Lieut.

From 6 to 8 P.M. Weather cloudy and ugly. Blowing very fresh from S. S. W. Lightening to N. E.
Ship riding to the wind. Barometer steady. Fires banked in two boilers. Distilling.

(Signed) Clinton K. Curtis
Lieut.

From 8 to Midnight. Cloudy. Blowing a pampero from S. by W. hauling to S. and E. Cum. Nimb.
clouds. Passing showers between 9 and 10. Wind died out between 10 and 11, and barometer
rising rapidly. Raining last hour of watch. Fires banked in two boilers. Steam pressure 25 lbs.
Distilling.

(Signed) Samuel C. Lemly
Ensign.

Moon Phase, 1st Qr, Dec N. 21°.

(Signed) Asa Walker,
Lieut
Navigator.

Examined and found to be correct

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Off Flores Island, Rio de la Plata

Hour.	Knots.	Tenths Fathoms.	WINDS.			BAROMETER.		TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
			Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. at'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.			
A,M														
1			SE by S	NE	2		29.98	78	78	77	or	Cum Nimb	0	S
2			"	"	1		29.99	78	78	77	op	"	0	"
3			S by W	SSE	3		29.97	78	78	77	"	"	0	"
4			SW by S	S	3		29.98	78	78	77	"	"	0	"
5			SSW	SE	5		29.98	78	77	76	"	"	0	M
6			"	S by W	5		29.99	78	77	76	"	"	0	"
7			SW by W	SSE	5-6		30.07	78	77	76	"	"	0	"
8	6		"	"	5-6		30.07	78	77	76	"	"	0	"
9	Flood		SSW	SE	5		30.10	78	77	75	bc	"	1	"
10		7	S by W	"	5		30.2	78	78	75	"	Cir Cum Str	1	"
11			"	"	4-5		30.15	77	79	75	"	"	1	"
Noon			SW by W 1/4 W	"	4		30.15	77	79	75	"	"	2	"

Record of the sail the vessel is
under at end of watch.

Distance run by Log since preceding Noon	knots	fathoms
Latitude by D. R. at Noon	°	' "
Longitude by D. R. at Noon	°	' "
Latitude by Observations at Noon ⊕	°	' "
Longitude by Chronometer from Forenoon Observations ⊕	°	' "
Current during the time	knots	fms. per hour, setting to the
Variation of the Compass by Amplitude ⊕ observed at Sunrise	°	" "
Variation of the Compass by Azimuth ⊕ observed at	°	" "
Water expended during the preceding 24 hours		250 gallons
Water Condensed during the preceding 24 hours		800 "
Water remaining on hand fit for me at Noon		1500 "
Coal consumed during the preceding 24 hours	1 tons	760 lbs.
Coal remaining on hand at Noon	82 "	1430 "

P,M	Tenths													
1			South	SE	4		30.16	77	78	76	bc	Cir Cum Str	6	M
2			S by W	"	4		30.17	77	78	76	"	"	6	"
3	Slack		"	"	5		30.17	76	78	76	"	"	5	"
4			"	"	5		30.17	76	77	75	"	"	4	"
5			"	"	5		30.17	76	77	75	"	"	1	"
6	1	5	"	ESE	5		30.19	76	77	75	"	"	1	"
7		8	"	S by E	5-6		30.18	76	76	74	"	"	2	"
8			"	SSE	5-6		30.22	76	76	74	"	"	2	"
9			S	"	5-6		30.24	76	76	73	"	"	3	"
10			SE by E	E	5-6		30.25	75	76	73	"	"	3	"
11			ENE	"	5-6		30.25	75	75	73	"	"	3	"
Mid.	Slack		E by N	E by N	5-6		30.25	75	75	73	"	"	3	"

Longitude by Chronometer from Afternoon Observations ⊕	°	' "
Longitude by Chronometer Observations		
Variation of the Compass by Amplitude	observed at Sunset	
Variation of the Compass by	at	

under the command of Commander Winfield Scott Schley, U. S. Navy.
Friday March 8th, 1878.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Overcast. Raining first two hours. Light airs to gentle breeze from N. E. shifting to S. Fires banked in two boilers. Steam pressure 25 lbs. Distilling.

(Signed) Charles B. T. Moore
Ensign.

From 4 to 8 A.M. Overcast and pleasant. Fresh breeze from S. and E. Between 6 and 7 barometer rose .08 inch. Sea moderate. Fires banked in two boilers. Distilling. Current at 8, .6 knots, setting to the N. N. E.

(Signed) James K. Cogswell
Lieut.

From 8 to Merid. Weather cloudy. Fresh breeze from S. E. moderating during watch. Flood tide. Barometer rising. Moderate sea from S. E. At 9.15 exercised at fire quarters, 1st stream 15 s, 2nd 30 s, 3rd 45 s. Secured in 1 m 15 s. Fires banked in two boilers. Distilling.

(Signed) Clinton K. Curtis
Lieut.

From Merid. to 4 P.M. Clear. Pleasant. Moderate to stiff breeze from S. E. Cir. Cum. Str. clouds. Fires banked in two boilers. Steam pressure 25 lbs. Distilling.

(Signed) Samuel C. Lemly
Ensign.

From 4 to 6 P.M. Cloudy. Pleasant. Stiff breeze from S. E. shifting to E. S. E. Fires banked in two boilers. Steam pressure 25 lbs. Distilling. Current at 6, 1.5 knots.

(Signed) Charles B. T. Moore
Ensign.

From 6 to 8 P.M. Cloudy and pleasant. Stiff to fresh breeze from E. by S. shifting to E. S. E. last hour. Barometer rising. Current at 7 setting to the East .8 knots. Fires banked in two boilers. Distilling.

(Signed) James K. Cogswell
Lieut.

From 8 to Midnight. Weather cloudy. Fresh breeze with stiff puffs from S. S. E. shifting to E. Barometer rising slowly. Moderate sea from S. E. Fires banked in two boilers. Distilling. Ebb tide.

(Signed) Clinton K. Curtis
Lieut.

Moon Phase, 1st Qr, Dec N. 21 °.

(Signed) Asa Walker,
Lieut
Navigator.

Examined and found to be correct

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Off Flores Island, Rio de la Plata

Hour.	Knots.	Tenths Fathoms.	WINDS.			BAROMETER.		TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
			Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. air'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.			
A,M														
1			ENE	E by S	5-7		30.24	76	76	74		bc	Cir Cum	6 R
2			"	"	5-7		30.24	76	76	74		"	"	7 "
3			"	"	5-7		30.24	76	76	74		"	"	8 "
4			"	"	6		30.24	75	75	72		"	"	9 "
5			"	E	6		30.24	74	75	73		"	"	9 "
6			"	"	5		30.25	74	75	74		"	"	6 "
7			"	"	5		30.27	75	77	76		"	"	7 "
8			E	E by S	5		30.30	75	76	74		"	"	6 "
9			E by S	"	5		30.31	75	76	74		"	"	2 "
10			"	"	6		30.30	75	77	74		"	"	1 "
11			E by N	"	6-7		30.30	75	77	74		"	"	1 "
Noon	5		ENE	"	6-7		30.27	75	78	75		oc	"	1 "

Record of the sail the vessel is
under at end of watch.

Distance run by Log since preceding Noon	Knots		fathoms	
Latitude by D. R. at Noon	o	'	"	
Longitude by D. R. at Noon	o	'	"	
Latitude by Observations at Noon ⊕	o	'	"	
Longitude by Chronometer from Forenoon Observations ⊕	o	'	"	
Current during the time	knots		fms. per hour, setting to the	
Variation of the Compass by Amplitude ⊕ observed at Sunrise	o	"	"	
Variation of the Compass by Azimuth ⊕ observed at	o	"	"	
Water expended during the preceding 24 hours			250	gallons
Water Condensed during the preceding 24 hours			1400	"
Water remaining on hand fit for me at Noon			2300	"
Coal consumed during the preceding 24 hours	1	tons	650	lbs.
Coal remaining on hand at Noon	81	"	780	"

P,M	Tenths													
1	Ebb		NE	ENE	6-7		30.27	75	78	75		bc	Cum Nimb	1 R
2	1		NE 1/2 E	"	6-7		30.27	76	78	75		"	"	1 "
3			"	"	6-7		30.25	76	78	75		"	Cir Cum Str	1 "
4	Flood		"	"	6-7		30.26	76	77	75		"	"	1 "
5			NE	E by N	6-7		30.20	75	77	74		"	"	3 "
6	1	5	NE by N	"	6-7		30.18	75	77	74		"	"	3 "
7			NE	E	6-7		30.10	76	75	74		o	Cum Nimb	0 "
8			"	E by S	6-7		30.20	75	75	74		o	"	0 "
9			"	"	6-7		30.20	76	75	73		ou	"	0 "
10			"	"	6-7		30.18	76	75	73		"	"	0 "
11			"	S	6-7		30.15	76	74	73		our	"	0 "
Mid.	5		"	"	6-7		30.15	75	74	72		"	"	0 "

Longitude by Chronometer from Afternoon Observations ⊕	o	'	"	
Longitude by Chronometer Observations	o	'	"	
Variation of the Compass by Amplitude	o	'	"	
Variation of the Compass by	o	'	"	

observed at Sunset
at

under the command of Commander Winfield Scott Schley, U. S. Navy.
Saturday March 9th, 1878.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear. Cool. Pleasant. Very fresh breeze with heavy gusts from E. by S. Cir. Cum. clouds. Barometer steady. No perceptible surface current. Fires banked in two boilers. Steam pressure 25 lbs. Distilling.

(Signed) Samuel C. Lemly
Ensign.

From 4 to 8 A.M. Clear. Pleasant. Fresh to stiff breeze from E. and E. by S. Uruguayan gunboat got underway and steamed towards Montevideo.

(Signed) Charles B. T. Moore
Ensign.

From 8 to Merid. Cloudy first part, overcast last hour. Stiff breeze, increasing to a very fresh breeze. Sea rough. Barometer falling slowly. Quarterly board of survey surveyed a barrel of vinegar, found to be 20 gals. short, from leakage, received on board in that condition at Rio de Janeiro.

(Signed) James K. Cogswell
Lieut.

From Merid. to 4 P.M. Overcast and cloudy. Fresh breeze with very fresh puffs from E. N. E. Barometer falling. Sea rough. Force of current at 2, 1. knot setting to S. Ebb tide. Fires banked in two boilers. Distilling. English steamer Elbe came in and anchored.

(Signed) Clinton K. Curtis
Lieut.

From 4 to 6 P.M. Cloudy. Cool. Fresh wind with heavy gusts from E. by N. Cir. Cum. Str. clouds. Barometer falling. The Royal Mail Steamer "Elbe" got underway and stood up the river. Fires banked in two boilers. Steam pressure 25 lbs. Distilling.

(Signed) Samuel C. Lemly
Ensign.

From 6 to 8 P.M. Overcast. Cool. Fresh breeze, blowing in gusts from E. and E. x S. Veered to 60 fathoms, port chain. Fires banked in two boilers. Steam pressure 25 lbs. Distilling.

(Signed) Charles B. T. Moore
Ensign.

From 8 to Midnight. Weather overcast and ugly. Raining last hour of watch. Squally. Blowing fresh squalls from E. Barometer falling, steady last hour. Fires banked in two boilers. Distilling. Sea rough. Current setting to the S, .5 knots.

(Signed) James K. Cogswell
Lieut.

Moon Phase, 1st Qr, Dec N. 24 °.

(Signed) Asa Walker,
Lieut
Navigator.

Examined and found to be correct

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Off Flores Island, Rio de la Plata

Hour.	Knots.	Tenths Fathoms.	WINDS.			BAROMETER.		TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
			Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. at'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.			
A,M														
1	Ebb		NE by E	E by N	6-8		30.16	74	70	68	org	Nimb	0	R
2			"	"	6-8		30.16	73	70	68	"	"	0	"
3			"	"	6-8		30.16	73	69	68	"	"	0	"
4			"	"	6-8		30.08	73	69	68	"	"	0	"
5			NE	"	6-8		30.04	73	70	69	"	"	0	"
6			ENE	E	6-8		30.04	73	70	69	"	"	0	"
7	1	5	NE by E	"	6-8		30.04	73	70	69	or	"	0	"
8			"	"	6-7		30.05	73	72	69	"	"	0	"
9			"	"	6-7		30.04	72	73	71	"	"	0	"
10			ENE	E by N	6-7		30.05	72	74	72	op	Cum Nimb	0	"
11			"	"	5-7		30.04	73	74	73	o	"	0	"
Noon		5	NE by E	"	5-7		30.02	73	74	73	"	"	0	"

Record of the sail the vessel is
under at end of watch.

Distance run by Log since preceding Noon knots fathoms.

Latitude by D. R. at Noon ° ' "

Longitude by D. R. at Noon ° ' "

Latitude by Observations at Noon ⊕ ° ' "

Longitude by Chronometer from Forenoon Observations ⊕ ° ' "

Current during the knots fms. per hour, setting to the time

Variation of the Compass by Amplitude ⊕ observed at Sunrise ° " "

Variation of the Compass by Azimuth ⊕ observed at ° " "

Water expended during the preceding 24 hours 250 gallons

Water Condensed during the preceding 24 hours 500 "

Water remaining on hand fit for me at Noon 2600 "

Coal consumed during the preceding 24 hours tons 1170 lbs.

Coal remaining on hand at Noon 80 " 1850 "

P,M		Tenths												
1			ENE	E by S	7-8		30.01	73	74	73	o	Cum Nimb	0	S
2			"	"	7-8		30.00	73	73	72	"	"	0	"
3			"	"	7-8		29.99	73	73	72	"	"	0	"
4			ENE 1/2 E	"	7-8		29.97	73	73	72	"	"	0	"
5	Flood		E by N	E	6-7		29.97	73	73	72	"	"	0	"
6			ENE	"	4-5		29.97	73	73	71	"	"	0	"
7			"	E by S	3-5		29.96	73	71	70	bc	"	1	M
8	1		"	"	3-4		29.96	73	72	71	"	"	1	"
9			"	"	3-5		29.95	73	72	71	"	"	2	"
10			"	"	3-5		29.95	73	72	71	"	"	4	"
11			"	ESE	3-5		29.95	73	72	71	"	"	6	"
Mid.	1		"	"	3-4		29.93	73	73	72	"	"	1	"

Longitude by Chronometer from Afternoon Observations ⊕ ° ' "

Longitude by Chronometer Observations ° ' "

Variation of the Compass by Amplitude observed at Sunset ° ' "

Variation of the Compass by at ° ' "

under the command of Commander Winfield Scott Schley, U. S. Navy.
Sunday March 10th, 1878.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Cloudy and rainy. Blowing a moderate gale from E. by N. Barometer fell from 3 to 4, .08 inch. Rough sea. Strong current setting to S. Ebb tide. Fires banked in two boilers. Distilling.

(Signed) Clinton K. Curtis
Lieut.

From 4 to 8 A.M. Cloudy. Rainy. Blowing a moderate gale with strong puffs from E. Nimbus clouds. A large barkentine rigged steamer standing up river. Stopped distilling at 7.30. Fires dying out.

(Signed) Samuel C. Lemly
Ensign.

From 8 to Merid. Overcast. Passing showers first two hours. Very fresh breeze blowing in gusts, from E. and E. by N. and gradually decreasing. At 9.30 Comdg. Officer inspected ship and crew at quarters, afterwards read prayers.

(Signed) Charles B. T. Moore
Ensign.

From Merid. to 4 P.M. Overcast. Light sprinkling of rain at times. Blowing a moderate gale from E. by S. Sea rough. Barometer falling slowly. Current 1 knot setting to S. W. by S.

(Signed) James K. Cogswell
Lieut.

From 4 to 6 P.M. Overcast and cloudy. Fresh breeze, with strong puffs from E, moderate last hour. Barometer steady. Sea rough. Force of current 1 knot setting to S. S. W.

(Signed) Clinton K. Curtis
Lieut.

From 6 to 8 P.M. Cloudy. Cool. Pleasant. Wind dying down from stiff to moderate breeze from E. by S. Cum. Nimb. clouds. Barometer steady.

(Signed) Samuel C. Lemly
Ensign.

From 8 to Midnight. Cloudy. Cool. Pleasant. Gentle to stiff breeze from E. by S. and E. S. E. blowing in gusts.

(Signed) Charles B. T. Moore
Ensign.

Moon Phase, 1st Qr, Dec N. 27 °.

Examined and found to be correct

(Signed) Asa Walker,
Lieut
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Off Flores Island, Rio de la Plata

Hour.	Knots.	Tenths Fathoms.	WINDS.			BAROMETER.			TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
			Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. attd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.				
A,M															
1			ENE	ESE	3		29.92	72	73	72		o	Cum Nimb	0	S
2			"	"	3		29.91	72	73	72		"	"	0	"
3		6	"	"	3		29.89	73	73	72		bc	Cum	9	"
4			E by N	"	3		29.86	73	73	72		"	"	3	"
5			ESE	"	2-3		29.86	73	73	72		"	"	4	"
6			"	"	2-3		29.86	73	73	72		"	"	2	"
7			SE	SE	2-3		29.86	73	73	72		"	"	2	"
8			ESE	ESE	2-3		29.86	73	73	72		"	"	1	"
9			"	E by S	3		29.87	72	73	72		"	Cir Cum	3	"
10			E	E	2		29.86	73	76	73		"	"	3	"
11		3	"	"	2		29.86	74	75	74		"	"	4	"
Noon			"	"	2		29.87	74	76	74		"	"	4	"

Record of the sail the vessel is
under at end of watch.

Distance run by Log since preceding Noon knots fathoms.

Latitude by D. R. at Noon ° ' "

Longitude by D. R. at Noon ° ' "

Latitude by Observations at Noon ⊕ ° ' "

Longitude by Chronometer from Forenoon Observations ⊕ ° ' "

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊕ observed at Sunrise ° ' "

Variation of the Compass by Azimuth ⊕ observed at ° ' "

Water expended during the preceding 24 hours 250 gallons

Water during the preceding 24 hours "

Water remaining on hand fit for me at Noon 2300 "

Coal consumed during the preceding 24 hours tons 250 lbs.

Coal remaining on hand at Noon 80 " 1600 "

P,M	Tenths														
1		NE by E	East	1	29.84	74	76	75	bc	Cum Nimb	3	S			
2		"	"	1	29.82	74	76	75	"	"	1	"			
3		ENE	E by S	1	29.79	73	76	75	"	Cir Cum Nimb	3	"			
4		"	ESE	1	29.77	73	75	75	"	"	1	"			
5		NE by E	SE by E	1	29.77	73	75	74	"	"	1	"			
6	2	"	"	1	29.77	73	75	74	"	"	2	"			
7	Slack	NNE 1/2 E	NE	1-2	29.79	73	75	73	"	"	3	"			
8	Ebb	WNW	ENE	2	29.79	73	74	73	"	"	2	"			
9		NW by W	NE	1	29.76	73	74	73	"	"	3	"			
10		W by N	"	0-1	29.76	73	74	74	"	"	4	"			
11		"	Calm	0	29.76	73	74	74	"	"	7	"			
Mid.		N by E	"	0	29.77	73	74	74	"	"	7	"			

Longitude by Chronometer from Afternoon Observations ⊕ ° ' "

Longitude by Chronometer Observations ° ' "

Variation of the Compass by Amplitude observed at Sunset ° ' "

Variation of the Compass by at ° ' "

under the command of Commander Winfield Scott Schley, U. S. Navy.
Monday March 11th, 1878.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Cloudy and pleasant. Light breeze from E. S. E. Barometer falling slowly. Cum. Nimb. clouds. Current .6 knots setting to the S. S. W.

(Signed) James K. Cogswell
Lieut.

From 4 to 8 A.M. Cloudy. Pleasant. Light to gentle breeze from E. S. E. and S. E. Barometer steady. Force of current 1 knot setting to S. S. W. At 6 brought to port chain and hove in to 45 fathoms. At 8 crossed royal and top gallant yards and loosed sail to a buntline.

(Signed) Clinton K. Curtis
Lieut.

From 8 to Merid. Cloudy. Warm. Gentle to light breeze from E. Cir. Cum. clouds. At 9.15 exercised at general quarters. Times as follows. 1st Div. 3 m 30 s, 2nd Div. 3 m 15 s, Powder Div. 2 m, Nav. Div. 1 m, Engin. Div. 1 m 30 s. Secured, 1st Div. 4 m, 2nd Div. 4 m 30 s, Nav. Div. 1 m 15 s, Powder Div. 2 m 30 s, Eng. Div. 1 m 15 s. Uruguayan gunboat got underway and stood out of the harbor.

(Signed) Samuel C. Lemly
Ensign.

From Merid. to 4 P.M. Cloudy. Pleasant. Light airs from E. shifting to E. S. E. At 1 furling sail. Exercised at crossing and sending down light yards. Bent light sails. Two brigs and two brigantines got underway and stood up towards the city.

(Signed) Charles B. T. Moore
Ensign.

From 4 to 6 P.M. Cloudy and pleasant. Light airs from S. E. by E. Barometer steady. Sea smooth. Slack water at 7. Ship swung to ebb at 7.45. Current .2 knots setting to the S. W.

(Signed) James K. Cogswell
Lieut.

From 6 to 8 P.M. Cloudy. Pleasant. Light breeze from N. E. and E. N. E. Barometer steady. Sea smooth. Slack water at 7. Ship swung to ebb at 7.45.

(Signed) Clinton K. Curtis
Lieut.

From 8 to Midnight. Clear. Pleasant. Light airs falling to calm towards end of watch. Cir. Cum. Nimb. clouds. At 8.15 "Hartford" burned rocket, and attracted attention with electric light, answered by sending up rocket. "Hartford" then made signal with electric light, which owing to distance we were unable to read. We burned Coston preparatory, no answer. Expended in Navigators Department 1 rocket and 1 Coston preparatory.

(Signed) Samuel C. Lemly
Ensign.

Moon Phase, 1st Qr, Dec N. 28°.

(Signed) Asa Walker,
Lieut
Navigator.

Examined and found to be correct

Hour.			WINDS.			BAROMETER.		TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
			Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. at'd.	Air Dry Bulb.	Air Wet Bulb.				
A,M														
1			N by E	N by E	1-2	29.77	73	73	72		bc	Cir Cum	7	M
2			N	"	2	29.77	73	72	70	"	"	"	6	"
3			"	N	3	29.75	73	72	71	"	"	"	8	"
4			"	"	3	29.72	73	72	71	"	"	"	8	"
5			NNW	"	3	29.68	72	71	70	"	"	"	9	"
6			WNW	NNW	3	29.68	72	71	71	"	"	"	9	"
7	1		"	"	3	29.73	72	72	72	"	"	"	9	"
8			W by S	NW by N	3	29.80	72	72	73	"	"	"	9	"
9		Ebb	WNW	"	2-3	29.77	73	74	73	"	"	"	8	"
10	1	0	SW 1/2 W	WSW	2-3	29.77	73	77	74	"	"	"	8	"
11			SW	"	2-3	29.77	74	77	75	"	"	"	7	"
Noon			SSW	SW	2-3	29.77	76	78	75	"	"	"	7	"

Distance run by Log since preceding Noon	knots		fathoms	
Latitude by D. R. at Noon	0	1		"
Longitude by D. R. at Noon	0	1		"
Latitude by Observations at Noon ⊕	0	1		"
Longitude by Chronometer from Forenoon Observations ⊕	0	1		"
Current during the	knots	fms. per hour, setting to the		
Variation of the Compass by Amplitude ⊕ observed at Sunrise	0		"	"
Variation of the Compass by Azimuth ⊕ observed at	0		"	"
Water expended during the preceding 24 hours			250	gallons
Water		during the preceding 24 hours		"
Water remaining on hand fit for me at Noon			2100	"
Coal consumed during the preceding 24 hours		tons	1750	lbs.
Coal remaining on hand at Noon	79	"	2090	"

P,M	Tenths												
1			South	SSW	1-2	29.75	79	79	78	bc	Cir Cum	8	L
2			"	S	1	29.75	79	79	78	"	"	8	"
3	1	5	"	"		29.75	79	79	78	"	"	7	"
4			"	"		29.75	79	80	79	"	"	7	"
5			S by W	NE	2	29.76	73	79	78	"	Cir Cum Nimb	2	"
6			SE by S	"	4	29.68	73	79	78	"	"	6	"
7			SW by S	"	1	29.72	77	78	77	oul	Cum Nimb	0	S
8	Ebb		SSW	SSE	4-6	29.72	77	78	77	oulr	"	0	"
9			SW	SE	3	29.77	77	77	76	bcl	"	2	"
10			WSW	ENE	1-2	29.77	75	77	76	"	"	3	"
11			"	"	1	29.76	76	78	77	"	"	5	"
Mid.			"	NNW	2	29.75	76	78	77	"	"	7	"

Longitude by Chronometer from Afternoon Observations \oplus	0	1	2
Longitude by Chronometer Observations	0	1	2
Variation of the Compass by Amplitude	0	1	2
observed at Sunset			
Variation of the Compass by	0	1	2
at			

under the command of Commander Winfield Scott Schley, U. S. Navy.
Tuesday March 12th, 1878.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear. Cool. Pleasant. Light to gentle breeze from N. by E. and N.
(Signed) Charles B. T. Moore
Ensign.

From 4 to 8 A.M. Clear and pleasant. Gentle breeze from N. N. W. shifting to W. Current at 7, 1 knot setting to the N. E. Received in Equipment Dept. 51 galley grate bars and 1/2 cord of wood. At 8 crossed T. G. and royal yards and loosed sail to a bowline. Current setting to E. N. E. 1.2 knots. Barometer fell until 6 A.M. when it commenced to rise.
(Signed) James K. Cogswell
Lieut.

From 8 to Merid. Clear. Warm and pleasant. Light to gentle breeze from W. S. W. and S. W. Barometer steady. Force of current at 10, 1.8 knots sitting to N. E. by E. Ebb tide. At 9.15 inspected at quarters, exercised at company drill and dress parade. At 10.30 furled sail. Exercised forecastle men in making up, unbending and bending foresail.
(Signed) Clinton K. Curtis
Lieut.

From Merid. to 4 P.M. Clear. Warm. Light breeze from S. falling to light airs towards end of watch. Cir. Cum. clouds. Unbent jib and bent new one. Exercised at topside drill. Expended in Ord. Dept. 1 exercise torpedo with D. E. fuze and connections, 6 splices, 10 lbs torpedo powder and 1 ball cotton wicking. Belgian steamer "Tycho Brahe" (L. and H.) and a small Spanish brigantine came down and anchored.
(Signed) Samuel C. Lemly
Ensign.

From 4 to 6 P.M. Cloudy. Pleasant. Light to moderate breeze from N. E. A German steamer came in and anchored. At 5.45 went to quarters and served out clean hammocks. Barometer falling rapidly.
(Signed) Charles B. T. Moore
Ensign.

From 6 to 8 P.M. Overcast. Ugly. Threatening weather. Barometer rising rapidly. Light airs from N. E. first hour, at 7.30 wind suddenly shifted to S. S. E. blowing fresh in squalls. Lightening in horizon from S. E. to S. W. Raining last hour. Pampero commenced to blow latter part of watch. Sent down light yards at sunset.
(Signed) James K. Cogswell
Lieut.

From 8 to Midnight. Cloudy first part. Clearing during watch. Gentle breeze at beginning of watch, decreasing to light breeze and light airs from S. E, E. N. E, and N. N. W. Barometer falling slowly. Ebb tide. At 11.30 Belgian steamer got underway standing S. W. by W.
(Signed) Clinton K. Curtis
Lieut.

Moon Phase 2nd Qr, Dec N. 27 °.

Examined and found to be correct

(Signed) Asa Walker,
Lieut
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Off Flores Island, Rio de la Plata

Hour.	Knots.	Tenths Fathoms.	WINDS.			BAROMETER.		TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
			Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. attd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.			
A,M														
1			W by S	Calm	0		29.76	74	75	74	bcl	Cum Nimb	5	S
2			SW by W	"	0		29.76	74	75	74	"	"	6	"
3		5	SW	"	0		29.76	74	75	74	"	"	8	"
4			"	"	0		29.75	74	75	74	"	"	8	"
5			SSW	SE by E	3		29.77	74	74	74	bc	"	8	"
6			"	SE	2		29.79	74	74	73	"	"	7	"
7			"	"	2		29.82	74	74	73	"	"	3	"
8			SW by S	"	2		29.86	74	74	73	"	"	3	"
9			SW	S	2		29.86	74	75	73	"	"	6	"
10			"	"	2		29.86	74	75	73	"	"	8	"
11	1	6	"	S by W	2		29.88	74	75	73	"	"	9	"
Noon			SW by W	SSW	2		29.87	74	75	74	"	"	8	"

Record of the sail the vessel is
under at end of watch.

Distance run by Log since preceding Noon	knots	fathoms.
Latitude by D. R. at Noon	0	"
Longitude by D. R. at Noon	0	"
Latitude by Observations at Noon ⊕	0	"
Longitude by Chronometer from Forenoon Observations ⊕	0	"
Current during the time	knots	fms. per hour, setting to the
Variation of the Compass by Amplitude ⊕ observed at Sunrise	0	"
Variation of the Compass by Azimuth ⊕ observed at	0	"
Water expended during the preceding 24 hours		300 gallons
Water		during the preceding 24 hours
Water remaining on hand fit for me at Noon		1700 "
Coal consumed during the preceding 24 hours	tons	250 lbs.
Coal remaining on hand at Noon	79	1840 "

P,M	Tenths												
1	Flood		SW 1/2 W	WSW	1-2	29.87	75	77	75	bc	Cir Cum	8	S
2			SW 1/2 S	SW	1-2	29.85	75	78	77	"	"	8	"
3			"	"	1-2	29.86	77	79	77	"	"	8	"
4			SW by S	"	1-2	29.89	78	79	77	"	"	8	"
5	1	5	SW	W	2	29.87	81	81	78	"	"	8	"
6			"	"	2	29.86	82	80	78	"	"	8	"
7			"	NW	2	29.87	77	79	76	"	"	9	"
8	1	6	"	"	2	29.85	77	78	76	"	"	9	"
9			"	"	3	29.85	74	76	74	b	None	10	"
10			"	"	3	29.87	74	75	73	"	"	10	"
11		2	"	"	4	29.87	74	74	73	"	"	10	"
Mid.			"	WNW	4-5	29.87	74	74	73	"	"	10	"

Longitude by Chronometer from Afternoon Observations ⊕	0	"
Longitude by Chronometer Observations	0	"
Variation of the Compass by Amplitude	0	"
Variation of the Compass by	0	"

observed at Sunset

at

under the command of Commander Winfield Scott Schley, U. S. Navy.
Wednesday March 13th, 1878.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear. Cool. Pleasant. Heavy fall of dew. Lightening to N. W. Cir. Cum. Nimb. clouds.

(Signed) Samuel C. Lemly
Ensign.

From 4 to 8 A.M. Clear first part, cloudy latter part. Pleasant. Light to gentle breeze from S. E. by E. and S. E. At 8, crossed light yards. Current at 8, 1 knot.

(Signed) Charles B. T. Moore
Ensign.

From 8 to Merid. Clear and pleasant. Light breeze from S. first part, shifting to W. Cir. Cum. clouds. At 9.30 inspected at quarters. Exercised 1st and 2nd Divisions at great guns and Powder Division at stations. Current 1.6 knots at 11.30 setting to the E.N.E.

(Signed) James K. Cogswell
Lieut.

From Merid. to 4 P.M. Clear and pleasant. Light airs from W. S. W. and S. W. Barometer rising slowly. Flood tide. Force of current at 2, 1.6 knots, setting to E. N. E. At 3.30 went to quarters and turned in clean hammocks.

(Signed) Clinton K. Curtis
Lieut.

From 4 to 6 P.M. Clear. Warm. Light W[ester]ly breeze. Cir. Cum. clouds. Current 1.5 knots N. E.

(Signed) Samuel C. Lemly
Ensign.

From 6 to 8 P.M. Clear. Pleasant. Light breeze from N. W. At sunset sent down light yards. Current at 8, 1.6 knots.

(Signed) Charles B. T. Moore
Ensign.

From 8 to Midnight. Clear and cool. Gentle to stiff breeze from N. W. first part, shifting to W. N. W. last hour. Bright moonlight. Current .2 knots at 11 setting to the North.

(Signed) James K. Cogswell
Lieut.

Moon Phase, 2nd Qr, Dec N. 25 °.

Examined and found to be correct

(Signed) Asa Walker,
Lieut
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns,

Hour.	Knots.	Tenths Fathoms.	WINDS.			BAROMETER.		TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
			Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. air'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.			
A,M														
1			SW by W	NW by W	4		29.88	74	73	71	b	None	10	S
2	1	6	"	"	4		29.89	74	73	71	"	"		"
3			SW	"	4		29.85	74	73	71	"	"		"
4			"	"	4		29.84	74	73	71	"	"		"
5			"	NW	4		29.84	74	72	71	bc	Cir Cum	9	M
6			SW by W	"	4		29.87	74	72	71	"	"	9	"
7	1	6	"	"	4		29.87	73	72	71	"	"	9	"
8			"	"	4		29.87	71	71	71	"	"	9	"
9			"	NW by N	4		29.86	73	74	74	"	"	7	"
10			"	"	4		29.86	74	75	75	"	"	7	"
11			"	"	4		29.86	74	77	76	"	"	5	"
Noon	1	7	"	NW	4		29.87	76	79	78	"	"	5	"

Record of the sail the vessel is
under at end of watch.

Distance run by Log since preceding Noon knots fathoms.

Latitude by D. R. at Noon ° ' "

Longitude by D. R. at Noon ° ' "

Latitude by Observations at Noon ⊕ ° ' "

Longitude by Chronometer from Forenoon Observations ⊕ ° ' "

Current during the knots fms. per hour, setting to the time

Variation of the Compass by Amplitude ⊕ observed at Sunrise ° " "

Variation of the Compass by Azimuth ⊕ observed at ° " "

Water expended during the preceding 24 hours 250 gallons

Water during the preceding 24 hours "

Water remaining on hand fit for me at Noon 1400 "

Coal consumed during the preceding 24 hours tons 250 lbs.

Coal remaining on hand at Noon 79 " 1590 "

P,M	Tenths													
1			WSW	NW	5		29.84	78	81	78	bc	Cir Cum	3	S
2			SW by W	"	5-6		29.81	79	82	79	"	"	5	"
3			"	"	5-6		29.80	80	82	80	"	"	9	"
4	1	4	"	"	5-6		29.78	80	82	80	"	"	7	"
5			SW 1/2 W	W	3-4		29.77	81	83	81	"	Cum	7	"
6	1	1	SW 1/2 S	"	2-3		29.76	81	83	81	"	"	7	"
7			SSW	WNW	2		29.80	79	82	81	"	"	8	"
8		6	SW by S	NW by W	1-2		29.78	79	80	79	bcl	"	4	"
9			"	NW by N	2		29.78	80	79	78	"	Cum Nimb	8	"
10			"	"	3		29.78	80	79	78	"	"	7	"
11			SW	"	3		29.78	78	78	78	"	"	8	"
Mid.			W by S	"	3		29.77	78	79	78	"	"	8	"

Longitude by Chronometer from Afternoon Observations ⊕ ° ' "

Longitude by Chronometer Observations ° ' "

Variation of the Compass by Amplitude observed at Sunset ° ' "

Variation of the Compass by at ° ' "

under the command of Commander Winfield Scott Schley, U. S. Navy.
Thursday March 14th, 1878.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear and pleasant. Moderate breeze from N. W. by W.
Barometer falling slowly. Bright moonlight first part. Force of current at 2, 1.6 knots setting to N.
E. Received in Pay Dept. 160 lbs fresh beef and 160 lbs vegetables for ships company.

(Signed) Clinton K. Curtis
Lieut.

From 4 to 8 A.M. Clear. Cool. Moderate N. W. breeze, Cir. Cum. clouds. A large brig rigged
German steamer passed up the river. At 8 crossed light yards. Current 1.6 knots N. E. Moderate
sea.

(Signed) Samuel C. Lemly
Ensign.

From 8 to Merid. Clear. Pleasant. Moderate breeze from N. W. by W. and N. W. At 9.20
inspected at quarters. Exercised companies A. and B. at single sticks. By order of Commanding
Officer, Thomas Murphy (O.S.) was confined to berth deck until further orders, for deliberate
disobedience of orders. Current 1.7 knots.

(Signed) Charles B. T. Moore
Ensign.

From Merid. to 4 P.M. Clear and pleasant. Stiff to fresh breeze from N. W. Cir. Cum. clouds.
Barometer falling slowly. Current 1.4 knots setting to the N. E. Clouds moving to the E. N. E.
Sea moderate.

(Signed) James K. Cogswell
Lieut.

From 4 to 6 P.M. Clear and warm. Moderate breeze from W, decreasing to light breeze.
Barometer falling slowly. Sea smooth. Force of current 1.1 knots, setting to N. E. British steamer
came in and anchored.

(Signed) Clinton K. Curtis
Lieut.

From 6 to 8 P.M. Clear. Pleasant. Light W.N.W. breeze. Cir. Cum. clouds. At sunset sent down
light yards. A bark rigged steamer and a small Paraguayan topsail schooner came in and
anchored. Instructed apprentice boys in night Army signals. Current about .6 knots N. and E.

(Signed) Samuel C. Lemly
Ensign.

From 8 to Midnight. Clear. Cool. Pleasant. Moonlight. Light to gentle breeze from N. W. by W.
Lightening to S. and E. English steamer got underway and stood out.

(Signed) Charles B. T. Moore
Ensign.

Moon Phase, 2nd Qr, Dec N. 21 °.

(Signed) Asa Walker,
Lieut
Navigator.

Examined and found to be correct

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Off Flores Island, Rio de la Plata

Hour.	Knots.	Tenths Fathoms.	WINDS.			BAROMETER.		TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
			Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. air'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.			
A,M														
1			W by S	WNW	3		29.77	78	78	77	bcl	Cum Nimb	7	M
2			"	"	3		29.77	78	78	77	"	"	4	"
3		5	W	"	3		29.78	78	78	77	"	"	7	S
4			"	"	3		29.78	78	78	77	"	"	7	"
5			WSW	"	2-3		29.79	76	78	77	bc	"	5	"
6			"	"	2-3		29.83	75	78	77	"	"	2	"
7			"	"	2-3		29.83	75	78	77	"	"	4	"
8			SW 1/2 W	"	2-3		29.87	76	78	77	"	"	4	"
9			SW	NW by W	2		29.89	77	79	79	"	Cir Cum	6	"
10			SW by W	W by N	3		29.89	78	80	80	"	"	7	"
11			SW	W	3		29.89	79	82	81	"	"	6	"
Noon	1	2	"	SW by W	3		29.89	80	83	81	"	"	4	"

Record of the sail the vessel is
under at end of watch.

Distance run by Log since preceding Noon knots fathoms.

Latitude by D. R. at Noon ° ' "

Longitude by D. R. at Noon ° ' "

Latitude by Observations at Noon ⊕ ° ' "

Longitude by Chronometer from Forenoon Observations ⊕ ° ' "

Current during the knots fms. per hour, setting to the time

Variation of the Compass by Amplitude ⊕ observed at Sunrise ° " "

Variation of the Compass by Azimuth ⊕ observed at ° " "

Water expended during the preceding 24 hours 300 gallons

Water during the preceding 24 hours "

Water remaining on hand fit for me at Noon 1100 "

Coal consumed during the preceding 24 hours tons 1450 lbs.

Coal remaining on hand at Noon 79 " 140 "

P,M	Tenths													
1			SW by S	WSW	3		29.88	82	84	82	bc	Cir Cum	4	S
2			"	"	2		29.88	82	84	83	"	"	5	"
3			"	"	2		29.86	84	85	84	"	"	6	"
4		9	SSW	SSW	1		29.85	84	85	84	"	"	6	"
5			"	"	1		29.82	84	85	84	"	"	9	"
6	1		ENE	"	1		29.83	82	83	82	"	"	9	"
7		9	SW by S	ENE	1		29.83	82	83	82	"	"	9	"
8			SW	"	1		29.81	81	83	82	"	"	9	"
9			WSW	NNW	1		29.80	82	83	82	"	"	9	"
10			"	"	2		29.82	80	82	81	bcl	"	9	"
11			W by S	"	4		29.82	80	82	80	"	"	9	"
Mid.	1	3	W by N	"	5		29.81	80	82	78	bc	"	8	"

Longitude by Chronometer from Afternoon Observations ⊕ ° ' "

Longitude by Chronometer Observations ° ' "

Variation of the Compass by Amplitude observed at Sunset ° ' "

Variation of the Compass by at ° ' "

under the command of Commander Winfield Scott Schley, U. S. Navy.
Friday March 15th, 1878.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Cloudy and pleasant. Moderate breeze from W. N. W. Lightening in horizon to S. and E. Barometer steady. Current .5 knots setting to the E. N. E.

(Signed) James K. Cogswell
Lieut.

From 4 to 8 A.M. Partially cloudy. Pleasant. Light to gentle breeze from W. N. W. Barometer rising rapidly. Sea smooth. Force of current 1 knot setting to N. E.

(Signed) Clinton K. Curtis
Lieut.

From 8 to Merid. Clear. Warm. Gentle W[ester]ly breeze. Cir. Cum. clouds. At 9.30 French steamer "Rivadavia" got underway and stood out to sea, dipped colors in passing. Returned salute. Engaged in rattling down lower rigging. Current 1.2 knots N. E.

(Signed) Samuel C. Lemly
Ensign.

From Merid. to 4 P.M. Clear. Warm. Gentle breeze from W. S. W. falling to light airs from S. S. W. Engaged in rattling down and tarring down lower rigging. Current .9 knots.

(Signed) Charles B. T. Moore
Ensign.

From 4 to 6 P.M. Clear and warm. Light airs from S. S. W. first hour and from E. N. E. last hour. Sea smooth. Cir. Cum. clouds. Current 1 knot setting to the N. N. E. Barometer steady. At 6 started fires in boilers No. 1 and 3.

(Signed) James K. Cogswell
Lieut.

From 6 to 8 P.M. Clear, warm and pleasant. Light airs from E. N. E. Sea smooth. Barometer falling. Force of current 1 knot setting to N. E. Fires banked in two boilers.

(Signed) Clinton K. Curtis
Lieut.

From 8 to Midnight. Clear. Pleasant. Bright moonlight. Light breeze increasing to stiff breeze from N. N. W. Cir. Cum. clouds. At 9.45 started distiller. A large steamer came down and anchored Current 1.2 knots N. E. Fires banked in two boilers. Steam pressure 25 lbs. Distilling.

(Signed) Samuel C. Lemly
Ensign.

Moon Phase, 2nd Qr, Dec N. 16°.

Examined and found to be correct

(Signed) Asa Walker,
Lieut
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Off Flores Island Rio de la Plata

Hour.	Knots.	Tenths Fathoms.	WINDS.			BAROMETER.		TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
			Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. attd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.			
A,M														
1			WNW	NNW	5-6		29.81	78	79	78		bc	Cum	9 M
2			"	N by W	5-6		29.79	74	79	78		"	"	9 "
3			NW	"	5-6		29.79	77	79	78		"	"	9 "
4			"	"	4-5		29.79	77	79	78		"	"	9 "
5			NNW	"	4		29.80	76	78	76		"	"	9 "
6			N	N	3		29.80	75	76	75		"	"	9 "
7			NNW	NNW	5		29.80	76	76	75		"	"	9 "
8			"	"	5		29.80	77	79	76		"	"	9 "
9			NW by N	"	3-4		29.80	78	80	78		"	"	9 "
10	8		NW	"	3-4		29.80	81	83	80		"	"	9 "
11			NW by W	"	3		29.80	81	83	80		"	"	9 "
Noon			W	"	2-3		29.80	81	84	80		"	"	9 "

Record of the sail the vessel is
under at end of watch.

Distance run by Log since preceding Noon	Knots		fathoms.	
Latitude by D. R. at Noon	0			"
Longitude by D. R. at Noon	0			"
Latitude by Observations at Noon ⊕	0			"
Longitude by Chronometer from Forenoon Observations ⊕	0			"
Current during the time	knots		fms. per hour, setting to the	
Variation of the Compass by Amplitude ⊕ observed at Sunrise	0		"	"
Variation of the Compass by Azimuth ⊕ observed at	0		"	"
Water expended during the preceding 24 hours			300	gallons
Water Condensed during the preceding 24 hours			400	"
Water remaining on hand fit for me at Noon			900	"
Coal consumed during the preceding 24 hours	1	tons	790	lbs.
Coal remaining on hand at Noon	77	"	1590	"

P,M	Tenths													
1		West	North	3		29.81	81	85	83		bc	Cir cum	9	M
2	Slack	"	"	3		29.80	81	85	83		"	"	9	"
3		"	NNW	4		29.71	81	86	84		"	"	8	"
4		"	N	4		29.69	84	86	84		"	"	8	"
5		NNE	N by W	4		29.67	85	88	86		"	"	9	"
6		NE by E	N	4		29.65	85	87	84		"	Cum	9	"
7		"	N by W	3		29.67	84	85	82		bcl	"	9	"
8		N	"	3		29.62	84	84	82		"	"	9	"
9		N by E	N	2-3		29.67	84	84	82		"	"	8	"
10		N 1/2 E	"	2-3		29.70	83	84	82		"	"	7	"
11		N	"	3		29.70	83	83	81		"	"	7	"
Mid.		"	"	3-4		29.64	81	83	81		"	"	4	"

Longitude by Chronometer from Afternoon Observations ⊕	0			"
Longitude by Chronometer Observations	0			"
Variation of the Compass by Amplitude observed at Sunset	0			"
Variation of the Compass by at	0			"

under the command of Commander Winfield Scott Schley, U. S. Navy.
Saturday March 16th, 1878.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear. Cool. Pleasant. Bright moonlight. Shift to fresh breeze from N. N. W. and N. by W. blowing in gusts. Moon set 3.05. Fires banked in two boilers. Distilling.

(Signed) Charles B. T. Moore
Ensign.

From 4 to 8 A.M. Clear and pleasant. Moderate to stiff breeze from N. to N.N.W. Current at 8, .4 knots setting to S. S. E. Fires banked in two boilers. Distilling. Sea moderate.

(Signed) James K. Cogswell
Lieut.

From 8 to Merid. Clear and warm. Moderate breeze from N. N. W. beginning of watch dying away to light breeze. Barometer steady. A large Italian steamer and and [sic] English steamer came in and anchored during watch. Several vessels got underway and stood towards the city. At 9.30 half masted colors in company with a German steamer lying at anchor, she sending a corpse ashore for internment. Force of current .8 knots setting to E. Fires banked in two boilers. Distilling.

(Signed) Clinton K. Curtis
Lieut.

From Merid. to 4 P.M. Clear. Warm. Moderate N[orther]ly breeze. Cir. Cum. clouds. German steamer "Hohengollun" got underway and stood out to sea, dipping her colors in passing. Returned salute. A small Uruguayan steamer left the harbor, dipping her colors in passing. Returned salute. A Spanish brig got underway and stood up river. Slack water at 2. At 3 current changed to N. W. Fires banked in two boilers. Steam pressure 25 lbs. Distilling.

(Signed) Samuel C. Lemly
Ensign.

From 4 to 6 P.M. Clear. Warm. Moderate breeze from N. by W. and N. Received fresh provisions for crew. Fires banked in two boilers. Steam pressure 25 lbs. Distilling.

(Signed) Charles B. T. Moore
Ensign.

From 6 to 8 P.M. Clear. Warm. Gentle breeze from N. by W. Barometer steady. Cum. clouds. Current .9 knots setting S. by W. A French steamer got underway and stood up the river. Fires banked in two boilers. Distilling.

(Signed) James K. Cogswell
Lieut.

From 8 to Midnight. Partially cloudy. Pleasant. Light breeze from N. increasing by end of watch to moderate breeze. Barometer unsteady. Force of current 1 knot setting S. W. Fires banked in two boilers. Distilling.

(Signed) Clinton K. Curtis
Lieut.

Moon Phase, 2nd Qr, Dec N. 10 °.

(Signed) Asa Walker,
Lieut
Navigator.

Examined and found to be correct

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Off Flores Island, Rio de la Plata

Hour.	Knots. Tenths Fathoms.		WINDS.			BAROMETER.			TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
			Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. at'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.				
A,M															
1			NNW	N by W	5		29.65	81	82	81		bcl	Cir Cum Nimb	6	S
2			SSW	SSW	6-8		29.65	78	80	79		or	"	0	M
3			S	SE by S	6-7		29.65	77	77	76		bc	"	4	P
4			S by E	SE	6-7		29.63	77	76	76		bc	"	4	"
5			SE by S	"	6-8		29.59	77	77	76		olt	Cum Nimb	0	"
6			S by E	SW	4-6		29.67	77	76	76		orlt	"	0	"
7			SE by S	S by E	4		29.68	75	74	74		or	"	0	"
8			"	SSE	3		29.70	75	74	74		o	"	0	"
9			E by N	S by E	3		29.68	74	75	74		"	"	0	"
10			NE by E	NE	5-6		29.60	74	75	74		"	"	0	"
11	6		WNW	E by S	3-4		29.62	74	76	75		"	"	0	"
Noon			W	S	0-1		29.66	75	77	76		"	"	0	S

Record of the sail the vessel is under at end of watch.

Distance run by Log since preceding Noon	knots	fathoms.
Latitude by D. R. at Noon	o	' "
Longitude by D. R. at Noon	o	' "
Latitude by Observations at Noon ⊕	o	' "
Longitude by Chronometer from Forenoon Observations ⊕	o	' "
Current during the time	knots	fms. per hour, setting to the
Variation of the Compass by Amplitude ⊕ observed at Sunrise	o	" "
Variation of the Compass by Azimuth ⊕ observed at	o	" "
Water expended during the preceding 24 hours		300 gallons
Water Condensed during the preceding 24 hours		700 "
Water remaining on hand fit for me at Noon		1600 "
Coal consumed during the preceding 24 hours	1 tons	670 lbs.
Coal remaining on hand at Noon	76 "	920 "

P,M	Tenths														
1			W by S	South	2-3		29.70	74	77	75		o	Cum Nimb	0	S
2	1	4	SW by W	"	3-4		29.72	75	77	76		"	"	0	"
3			SW 1/2 W	"	4		29.74	77	78	76		"	"	0	"
4			SW	"	4		29.76	77	78	76		"	"	0	"
5			SW by S	"	4		29.78	80	78	76		bc	"	3	M
6	1	5	SSW	"	4		29.78	78	78	75		"	Cir Cum Nimb	4	"
7			"	"	3		29.80	75	78	76		"	"	4	"
8			"	"	2		29.80	75	78	76		"	"	5	"
9			"	"	2		29.86	76	78	76		"	"	6	"
10			SW by S	"	0-1		29.86	77	78	76		bcu	"	1	"
11	1		SSW	SE by S	5-7		29.89	75	75	74		onqr	Cum Niimb	0	P
Mid.			S by W	SSE	7		29.88	75	75	74		"	"	0	"

Longitude by Chronometer from Afternoon Observations ⊕	o	' "
Longitude by Chronometer Observations	o	' "
Variation of the Compass by Amplitude	o	' "
Variation of the Compass by	o	' "

observed at Sunset
at

under the command of Commander Winfield Scott Schley, U. S. Navy.
Sunday March 17th, 1878.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Cloudy. Cool. At 1.50 struck by moderate pampero from S. S. W. wind shifting during watch to S. E. Italian steamer "Columbus" got underway and left the harbor. Fires banked in two boilers. Steam pressure 25 lbs. Distilling.

(Signed) Samuel C. Lemly
Ensign.

From 4 to 8 A.M. Overcast, rainy, with thunder and lightening. Blowing a moderate gale from S. E. first hour, shifting suddenly to S. W. and falling to a gentle breeze from S. S. E. Fires banked in two boilers. Steam pressure 25 lbs. Distilling.

(Signed) Charles B. T. Moore
Ensign.

From 8 to Merid. Weather overcast. Wind variable in force and direction, shifting around the compass and blowing in fresh squalls from N. E. first part of watch. Wind very light last hour and from the South. Current .6 knots setting to the E. At 9.30 the Commanding Officer inspected ship and crew at quarters, afterwards read prayers. Distilling with two boilers. Barometer unsteady.

(Signed) James K. Curtis
Lieut.

From Merid. to 4 P.M. Overcast. Light breeze from South, increasing to moderate breeze at end of watch. Barometer rising. Moderate sea from South. Force of current 1.4 knots setting to E. N. E. Distilling with two boilers.

(Signed) Clinton K. Curtis
Lieut.

From 4 to 6 P.M. Cloudy. Cool. Pleasant. Moderate S[outher]ly breeze. Cir. Cum. Nimb. clouds. Current 1.5 knots N. E. Fires banked in two boilers. Steam pressure 25 lbs. Distilling.

(Signed) Samuel C. Lemly
Ensign.

From 6 to 8 P.M. Cloudy. Pleasant. Gentle to light breeze from South. Barometer steady. Fires banked in two boilers. Steam pressure 25 lbs. Distilling.

(Signed) Charles B. T. Moore
Ensign.

From 8 to Midnight. Cloudy first part. Overcast last half of watch. Wind variable in force, blowing very fresh in squalls last hour. At 10 a thick rain squall came up, afterwards cleared up. Current 1 knot setting N. E. Distilling with two boilers.

(Signed) James K. Cogswell
Lieut.

Moon Phase, 2nd Qr, Dec N. 3 °.

(Signed) Asa Walker,
Lieut
Navigator.

Examined and found to be correct

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Off Flores Islands, Rio de la Plata

Hour.	Knots. Tenths Fathoms.	WINDS.			BAROMETER.		TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
		Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. attd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.			
A,M													
1		SSW	SSE	6-7		29.88	76	76	75	o	Cum Nimb	0	P
2		S by W	"	6-8		29.88	76	75	74	oc	"	1	"
3		"	"	6-8		29.88	76	75	73	"	"	3	"
4		"	"	6-7		29.88	76	75	73	"	"	7	"
5		SSW	SE	3		29.91	76	74	73	"	Cir Cum Nimb	6	L
6		S by W	"	3		29.95	74	74	73	"	"	5	"
7		SSW	SSE	3		29.96	75	75	73	"	"	4	"
8	5	"	"	4		29.98	75	75	73	"	"	2	"
9		"	S	5		30.01	72	74	71	o	Cum Nimb	0	"
10		SW by S	SSE	5		30.03	72	74	71	"	"	0	"
11		"	SE by S	5		30.03	72	74	72	"	"	0	"
Noon		"	"	5		30.03	72	74	72	"	"	0	"

Record of the sail the vessel is
under at end of watch.

Distance run by Log since preceding Noon knots fathoms.

Latitude by D. R. at Noon " "

Longitude by D. R. at Noon " "

Latitude by Observations at Noon ⊕ " "

Longitude by Chronometer from Forenoon Observations ⊕ " "

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊕ observed at Sunrise " "

Variation of the Compass by Azimuth ⊕ observed at " "

Water expended during the preceding 24 hours 300 gallons

Water Condensed during the preceding 24 hours 1000 "

Water remaining on hand fit for me at Noon 2300 "

Coal consumed during the preceding 24 hours 1 tons 290 lbs.

Coal remaining on hand at Noon 75 " 630 "

P,M	Tenths												
1		SW by S	SE by S	5		30.02	72	74	71	ou	Cum Nimb	0	P
2		SW	"	6		30.02	73	74	71	"	"	0	"
3		"	"	6-7		30.01	74	74	71	"	"	0	"
4		"	"	6-7		29.99	74	73	70	"	"	0	"
5		SW by S	SSE	5-6		30.00	73	73	70	bc	Cum Nimb Str	1	M
6		"	"	6-7		30.00	73	73	70	"	"	2	"
7		SSW	SE by S	6-7		30.01	74	72	70	"	"	3	P
8		"	"	5-6		30.01	74	72	70	"	"	3	"
9		SW by S	SE	5		30.01	74	72	69	"	"	2	"
10		"	"	5		30.03	72	71	69	"	"	1	"
11		SW	"	5		29.99	72	71	69	"	"	2	"
Mid.		"	SE by E	5-6		29.99	72	71	69	"	"	2	"

Longitude by Chronometer from Afternoon Observations ⊕ " "

Longitude by Chronometer Observations " "

Variation of the Compass by Amplitude observed at Sunset " "

Variation of the Compass by at " "

under the command of Commander Winfield Scott Schley, U. S. Navy.
Monday March 18th, 1878.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Cloudy. Fresh breeze from S. S. E. increasing at times to moderate gale. Barometer steady. Sea rough. Wind decreasing and weather clearing latter part of watch. Current 1.5 knots setting to N. E. X E. Fires banked in two boilers. Distilling.

(Signed) Clinton K. Curtis
Lieut.

From 4 to 8 A.M. Clear. Pleasant. Gentle breeze from S. E. shifting to S. S. E. at end of watch. Cir. Cum. Nimb. clouds. A large barque rigged steamer (P.S.N.Co.) passed up the river. Fires banked in two boilers. Steam pressure 25 lbs. Distilling. Current about .5 knots N. E. At 8 crossed light yards and loosed sails.

(Signed) Samuel C. Lemly
Ensign.

From 8 to Merid. Overcast. Moderate to fresh breeze from S shifting to S. E. by S. At 9.15 exercised at general quarters. Times as follows. Engrs. Div. 1 m 25 s, Surgeons Div. 2 m, 2nd Div. 2 m 20 s, Powder Div. 2 m 20 s, Nav. Div. 2 m 25 s, 1st Div. 3 m 20 s. Secured. Surgeon's Div. 1 m 40 s, Nav. Div. 2 m 15 s, Powder Div. 2 m 20 s, Engrs. Div. 4 m 25 s, 2nd Div. 4 m 50 s, 1st Div. 4 m 55 s. At 9.45 furled sail. A Brazilian gunboat came in and anchored, saluting by dipping colors in passing. Answered. An English steamer (P.S.A.Co.) and the French barque "Espucuse" came in and anchored. Fires banked in two boilers. Steam pressure 25 lbs. Distilling.

(Signed) Charles B. T. Moore
Ensign.

From Merid. to 4 P.M. Overcast. Pleasant. Stiff to very fresh breeze from S. E. by S. Squally. Sea rough. Barometer falling slowly. Fires banked in two boilers. Distilling.

(Signed) James K. Cogswell
Lieut.

From 4 to 6 P.M. Weather cloudy. Strong to very fresh breeze from S. S. E. Barometer steady. Moderate sea setting to W. N. W. Scraped spars. Fires banked in two boilers. Distilling.

(Signed) Clinton K. Curtis
Lieut.

From 6 to 8 P.M. Partially clear. Cool. Fresh breeze with very fresh gusts from S. E. by S. Ship rolling and pitching moderately. At sunset sent down light yards. No perceptible surface current. Instructed apprentice boys in night signal (Army Code) Fires banked in two boilers. Steam pressure 25 lbs. Distilling.

(Signed) Samuel C. Lemly
Ensign.

From 8 to Midnight. Cloudy. Cool. Stiff to fresh breeze from S. E. and S. E. x E. blowing in gusts. Moonlight. Sea rough. English steamer (P.S.N.Co.) went to sea.

(Signed) Charles B. T. Moore
Ensign.

Moon Phase, 3rd Qr, Dec S. 4 °.

(Signed) Asa Walker,
Lieut
Navigator.

Examined and found to be correct

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Off Flores Island Rio de la Plata

Hour.	Knots.	Tenths Fathoms.	WINDS.			BAROMETER.		TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
			Courses steered.	Direction.	Force.	Lagway.	Height in inches.	Ther. at'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.			
A,M														
1			SW	SE by E	6-7		30.01	71	71	69		bc	Cum Nimb	1 P
2			SW by W	"	6-7		29.99	70	71	69		o	"	0 "
3			SW	SE	6		29.96	70	71	69		"	"	0 "
4			"	"	6		29.96	70	70	69		"	"	0 "
5			"	"	6		29.96	70	70	69		"	"	0 "
6			"	"	6		29.96	70	70	69		"	"	0 "
7			S	"	6		29.96	70	70	70		"	"	0 "
8			"	"	6		29.96	70	70	70		"	"	0 "
9			S by E	"	5-6		29.96	70	70	70		or	Cum	0 M
10			S	"	5-6		29.90	69	69	69		"	"	0 P
11			S by W	E by S	3-5		29.92	60	69	69		"	"	0 M
Noon			underway	E	3-4		29.92	69	69	69		"	"	0 "

Record of the sail the vessel is
under at end of watch.

Distance run by Log since preceding Noon	knots		fathoms.	
Latitude by D. R. at Noon	o	'	"	"
Longitude by D. R. at Noon	o	'	"	"
Latitude by Observations at Noon ⊕	o	'	"	"
Longitude by Chronometer from Forenoon Observations ⊕	o	'	"	"
Current during the time	knots	fms. per hour, setting to the		
Variation of the Compass by Amplitude ⊕ observed at Sunrise	o	"	"	"
Variation of the Compass by Azimuth ⊕ observed at	o	"	"	"
Water expended during the preceding 24 hours			300	gallons
Water Condensed during the preceding 24 hours			300	"
Water remaining on hand fit for me at Noon			2300	"
Coal consumed during the preceding 24 hours	2	tons	1770	lbs.
Coal remaining on hand at Noon	72	"	1100	"

P,M	Tenths													
1	1	8	WSW	S by E	4		29.90	70	68	69		or	Nimb	0 M
2		5	"	"	7-9		29.76	70	66	68		orq	"	0 P
3	4	5	SW	"	5-7		29.84	70	67	68		"	"	0 "
4			Standing in for Montevideo S by E	"	5-7		29.85	70	65	67		"	"	0 "
5			SSE 1/2 E	SE	6-7		29.83	67	65	65		"	"	0 "
6			SSE	"	6-7		29.83	67	65	65		"	"	0 "
7			"	"	6-7		29.83	67	64	65		"	"	0 "
8			"	"	4-6		29.80	67	64	65		"	"	0 "
9			"	"	4-6		29.80	67	64	65		"	"	0 "
10			"	SE by S	4-6		29.80	67	64	65		"	"	0 "
11			SE by S	"	6-8		29.74	67	64	65		opq	"	0 "
Mid.			S	S by E	6-7		29.78	66	64	65		oq	"	0 "

Longitude by Chronometer from Afternoon Observations ⊕	o	'	"	"
Longitude by Chronometer Observations	o	'	"	"
Variation of the Compass by Amplitude	o	'	"	"
Variation of the Compass by	o	'	"	"

under the command of Commander Winfield Scott Schley, U. S. Navy.
Friday March 19th, 1878.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Overcast and cool. Fresh breeze from S. E. by S. first half of watch, last two hours from S. E. Barometer falling. Sea rough. Fires banked in two boilers. Distilling.

(Signed) James K. Cogswell
Lieut.

From 4 to 8 A.M. Weather cloudy and threatening. Fresh breeze from S. E. Barometer steady. Sea rough and setting to N. W. At 8, crossed topgallant yards. Fires banked in two boilers. Distilling.

(Signed) Clinton K. Curtis
Lieut.

From 8 to Merid. Overcast. Rainy. Fresh breeze from S. E. falling and shifting to E. at end of watch. At 9.15 inspected at quarters. Engaged in making preparations for getting underway. At 8.30 started fires in two boilers and spread them in two. By order of Commander, Thomas Murphy (O.S.) was released from confinement and sent to duty. At 11.20 got underway and stood in near the Uruguayan gunboat, communicated with gunboat. Draught forward 13 feet 11 in. Amidships 14 feet 11 in. Aft 16 feet. Steam pressure 55 lbs. Steam in 4 boilers.

(Signed) Samuel C. Lemly
Ensign.

From Merid. to 4 P.M. Overcast. Raining. Squally. Blowing a fresh gale from S. by E. Standing up to Montevideo in charge of pilot. At 2 sent down topgallant yards. At 3.56 came to in the harbor of Montevideo, with port anchor, 45 fathoms chain, in four fathoms of water. Bearings at anchor – The Mount W. N. W. 1/2 W, Pat Island N. W. 3/4 N. (pc) Ships head S. Steam in four boilers. Draught forward 13 feet 10 in. Amidships 14 feet 11 in. Aft 16 feet.

(Signed) Charles B. T. Moore
Lieut.

From 4 to 8 P.M. Overcast. Rainy. Squally. Fresh breeze with very fresh squalls from S. E. At 4.10 banked fires. At 4.30 veered to 60 fathoms port chain. Steamed ahead helm hard aport, let go starboard anchor veering to 15 fathoms. Allowed fires to die out and at 7.15 hauled fires. Seas rough. Wind moderating towards end of watch.

(Signed) Samuel C. Lemly
Ensign.

From 8 to Midnight. Overcast. Rainy first two hours. Squally. Wind fresh in squalls from S. E. shifting during watch to S. by E.

(Signed) Charles B. T. Moore
Ensign.

Moon Phase, 3rd Qr, Dec S. 11°.

(Signed) Asa Walker,
Lieut
Navigator.

Examined and found to be correct

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Montevideo, Uruguay S. A.

Hour.	Knots. Tenths Fathoms.	WINDS.			BAROMETER.		TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
		Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. at't'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.				
A,M														
1		S by W	South	4-5		29.81	67	65	66	bcp	Cir Cum Nimb	3	M	
2		SSW	S by W	3-7		29.81	67	65	66	"	"	5	"	
3		SW by S	SSW	5-7		29.81	67	65	66	"	"	4	"	
4		SSW	"	5-7		29.82	67	66	66	"	"	1	"	
5		"	"	7-8		29.82	67	66	65	bc	"	1	P	
6		SW by S	"	7-8		29.84	67	65	65	"	"	1	"	
7		SSW	"	7-8		29.88	67	65	65	"	"	3	"	
8		S by W	"	7-8		29.93	67	65	65	"	"	5	"	
9		S by E	"	5-7		29.86	66	65	65	"	"	4	"	
10		"	"	4-6		29.90	66	66	66	"	Cum Nimb	6	"	
11		"	"	5		29.90	66	66	66	"	"	7	"	
Noon		"	"	5		29.94	67	67	66	"	Cir Cum	7	"	

Distance run by Log since preceding Noon	knots	fathoms.
Latitude by D. R. at Noon	°	' "
Longitude by D. R. at Noon	°	' "
Latitude by Observations at Noon ⊕	°	' "
Longitude by Chronometer from Forenoon Observations ⊕	°	' "
Current during the time	knots	fms. per hour, setting to the
Variation of the Compass by Amplitude ⊕ observed at Sunrise	°	" "
Variation of the Compass by Azimuth ⊕ observed at	°	" "
Water expended during the preceding 24 hours		300 gallons
Water	during the preceding 24 hours	"
Water remaining on hand fit for me at Noon		2100 "
Coal consumed during the preceding 24 hours	tons	250 lbs.
Coal remaining on hand at Noon	72	" 850 "

P,M	Tenths												
1		South	S by W	4		29.98	67	68	66	bc	Cir Cum	6	P
2		"	S	4		29.99	67	68	67	"	"	3	"
3		S by W	S by W	4		29.99	68	68	67	"	"	1	"
4		SW	"	4		30.02	68	68	67	"	"	1	M
5		SSW	"	3		30.02	68	68	67	"	"	3	"
6		W	"	2		30.02	68	67	66	"	"	2	"
7		"	S	2		30.01	68	67	66	"	"	5	"
8		SW by W	SSW	1		30.01	68	67	66	"	"	6	"
9		SSW	ENE	0-1		30.03	68	67	66	bcm	"	9	S
10		SE	"	0-1		30.03	67	66	66	"	"	7	"
11		"	"	0-1		30.04	67	66	66	"	"	5	"
Mid.		"	NNW	2		30.04	65	664	64	"	"	5	"

Longitude by Chronometer from Afternoon Observations ⊕	°	' "
Longitude by Chronometer Observations	°	' "
Variation of the Compass by Amplitude	°	' "
Variation of the Compass by	at	" "

under the command of Commander Winfield Scott Schley, U. S. Navy.
Wednesday March 20th, 1878.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Overcast at time. Passing showers. Stiff breeze with very fresh gusts from S. shifting to S. S. W. towards end of watch. Cir. Cum. Nimb. clouds.

(Signed) Samuel C. Lemly
Ensign.

From 4 to 8 A.M. Cloudy and cool. Very fresh breeze from S. S. W. Blowing a moderate gale in squalls. Clearing up latter part of watch. Sea rough. Long swell from S. S. W. Barometer rising rapidly. At daylight sighted "Hartford" at anchor. Made ships number, which was answered. "Hartford" made her number. Sent Bill of Health, received at quarantine station at Flores Island, with surgeon's certificate to Health Officer on shore and received pratique. Hauled down quarantine flag at 7.30.

(Signed) James K. Cogswell
Lieut.

From 8 to Merid. Clear. Cool. Very fresh breeze from S. S. E. falling to stiff breeze during watch. Sea rough. Hove in to 45 fathoms on port chain, veering to 15 fathoms starboard chain. At 9.30 inspected at quarters. Officers from English, French, Spanish, Italian and Brazilian men of war called on Commanding Officer.

(Signed) Charles B. T. Moore
Ensign.

From Merid. to 4 P.M. Cloudy and cool. Moderate breeze from S. by W. Sea moderate. At 2, "Hartford" signaled 5455. Answered. Loosed sail. At 3.30 made interrogatory 2984. Hartford answered 904. At 3.45 "Hartford" made preparatory 4826 and 3.50, 4826. Furled sail. Riding to wind.

(Signed) James K. Cogswell
Lieut.

From 4 to 8 P.M. Cloudy. Pleasant. Gentle breeze from S. by W. falling to light airs during watch. At 5.40 called all hands to muster, when Commanding Officer informed crew that general liberty will be given.

(Signed) Charles B. T. Moore
Ensign.

From 8 to Midnight. Cloudy and cool. Light airs from E. N. E. first three hours, last hour light breeze from N. N. W. Heavy dew. Sea smooth. Bright moonlight.

(Signed) James K. Cogswell
Lieut.

Moon Phase, 3rd Qr, Dec S. 16 °.

Examined and found to be correct

(Signed) Asa Walker,
Lieut
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Montevideo, Uruguay S.A.

Hour.	Knots.	Tenths Fathoms.	WINDS.			BAROMETER.		TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
			Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. air'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.			
A,M														
1			South	N by W	3		30.02	65	65	65	bc	Cir Cum	9	M
2			WNW	NNW	3		30.02	65	63	63	"	"	9	"
3			NW by W	"	2		30.02	65	62	62	b	None	10	"
4			"	"	2		30.01	63	61	62	"	"	10	"
5			"	"	1		30.02	63	61	60	"	"	10	S
6			NNW	"	1-2		30.02	63	60	60	bc	Cum	9	"
7			"	"	2		30.03	64	60	60	"	"	9	"
8			NW	NW	2		30.05	65	62	62	"	"	9	"
9			SE	"	2		30.06	65	65	63	"	Cir Cum	9	"
10			SE by E	"	2		30.08	65	68	67	"	"	9	"
11			SE	"	2		30.07	67	68	67	"	"	9	"
Noon			S by E	"	2		30.07	67	69	68	"	"	9	"

Record of the sail the vessel is
under at end of watch.

Distance run by Log since preceding Noon	knots	fathoms.
Latitude by D. R. at Noon	°	' "
Longitude by D. R. at Noon	°	' "
Latitude by Observations at Noon ⊕	°	' "
Longitude by Chronometer from Forenoon Observations ⊕	°	' "
Current during the time	knots	fms. per hour, setting to the
Variation of the Compass by Amplitude ⊕ observed at Sunrise	°	" "
Variation of the Compass by Azimuth ⊕ observed at	°	" "
Water expended during the preceding 24 hours		300 gallons
Water during the preceding 24 hours		"
Water remaining on hand fit for me at Noon		1800 "
Coal consumed during the preceding 24 hours	tons	250 lbs.
Coal remaining on hand at Noon	72	" 600 "

P,M	Tenths											
1	WSW	NNW	2	30.04	68	70	68	bc	Cir Cum	9	S	
2	W by N	"	2	30.04	70	73	70	"	"	8	"	
3	W	"	2	30.02	71	74	72	"	"	7	"	
4	"	W	2	30.00	71	73	71	"	"	7	"	
5	NW	"	2	29.99	72	73	72	"	"	7	"	
6	NW by W	"	2	29.98	71	72	71	"	"	8	"	
7	"	"	2	29.96	70	70	69	"	"	8	"	
8	NNW	"	2	29.96	70	68	67	"	"	9	"	
9	N	N	2	29.95	68	67	65	"	Cum	9	"	
10	NE by N	"	3	29.94	68	66	65	"	"	9	"	
11	"	"	3-4	29.94	68	66	65	"	"	9	"	
Mid.	WNW	"	4	29.93	65	65	64	"	"	9	"	

Longitude by Chronometer from Afternoon Observations ⊕	°	' "
Longitude by Chronometer Observations	°	' "
Variation of the Compass by Amplitude observed at Sunset	°	' "
Variation of the Compass by at	°	' "

under the command of Commander Winfield Scott Schley, U. S. Navy.
Thursday March 21st, 1878.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear. Cool. Pleasant. Gentle to light breeze from N. by W. Bright moonlight.

(Signed) Charles B. T. Moore
Ensign.

From 4 to 8 A.M. Clear and cool. Light breeze from N. N. W. and N. W. Barometer rising. Sea smooth. At 7.40 Flagship made signal 3352. At 7.50 Flagship made preparatory 5455 and at 7.55 made 5455, at 8 loosed sail to a buntline.

(Signed) Clinton K. Curtis
Lieut.

From 8 to Merid. Clear and pleasant. Light breeze from N. W. Cir. Cum. clouds. Sea smooth. Sent liberty party ashore on 48 hours leave. Commander returned official calls. Board of survey consisted of the following officers, Lieut. Houston, Lieut. C. K. Curtis and Sail maker Van Meter, surveyed all the deck awnings, all the windsails, the boom and mast cover. The board of survey recommended that the mast and boom cover, the awnings, the forecastle and fore hatch windsails be condemned.

(Signed) James K. Cogswell
Lieut.

From Merid. to 4 P.M. Clear and pleasant. Light breeze from N. N. W. and West. Barometer falling slowly. Sea smooth. At 12.55 Flagship made preparatory 4826, at 1, made 4826. Furled sail.

(Signed) Clinton K. Curtis
Lieut.

From 4 to 8 P.M. Clear and pleasant. Light breeze from N.N.W. Cir. Cum. clouds. Sea smooth. At 6 "Hartford" made signal 2985, answered. Cleared hawse.

(Signed) James K. Cogswell
Lieut.

From 8 to Midnight. Clear and cool. Bright moonlight. Light to moderate breeze from North. Barometer falling slowly. Sea smooth.

(Signed) Clinton K. Curtis
Lieut.

Moon Phase, 3rd Qr, Dec S. 22 °.

Examined and found to be correct

(Signed) Asa Walker,
Lieut
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Montevideo, Uruguay S. A.

Hour.	Knots. Tenths Fathoms.	WINDS.			BAROMETER.		TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
		Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. at'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.			
A,M													
1		NW by W	NNW	2		29.93	65	62	61	bc	Cum	3	S
2		W	"	2		29.94	65	62	61	"	Cir Cum	5	"
3		WNW	"	2		29.94	65	65	64	"	"	5	"
4		NW by N	"	3		29.94	65	63	62	"	"	9	"
5		W by N	NW	3		29.93	64	63	62	"	"	4	"
6		WNW	WNW	3		29.94	64	63	63	"	"	4	"
7		NW by N	NNW	3		29.94	64	63	63	"	"	3	"
8		NNW	WNW	3		29.94	64	63	63	"	"	3	"
9		WNW	"	3		29.94	64	65	65	"	"	2	"
10		W	WS West	3-4		29.94	67	69	67	"	"	1	M
11		SW	"	4		29.94	68	75	71	"	"	1	"
Noon		SSW	"	4		29.94	70	75	72	"	"	1	"

Record of the sail the vessel is
under at end of watch.

Distance run by Log since preceding Noon	knots	fathoms.
Latitude by D. R. at Noon	°	' "
Longitude by D. R. at Noon	°	' "
Latitude by Observations at Noon ⊕	°	' "
Longitude by Chronometer from Forenoon Observations ⊕	°	' "
Current during the time	knots	fms. per hour, setting to the
Variation of the Compass by Amplitude ⊕ observed at Sunrise	°	" "
Variation of the Compass by Azimuth ⊕ observed at	°	" "
Water expended during the preceding 24 hours		300 gallons
Water Received during the preceding 24 hours		1000 "
Water remaining on hand fit for me at Noon		2800 "
Coal consumed during the preceding 24 hours	tons	250 lbs.
Coal remaining on hand at Noon	72	" 350 "

P,M	Tenths												
1	SSW	North	3		29.95	70	73	72	bc	Cir Cum Nimb	2	M	
2	WSW	SW	4		29.94	70	73	73	"	"	2	"	
3	NW	W	4		29.92	71	73	73	bcp	"	3	"	
4	"	"	2-4		29.91	72	73	73	"	"	5	"	
5	W by S	W by S	2		29.91	72	74	73	bc	"	5	"	
6	"	WSW	2		29.90	72	74	74	bcl	"	5	"	
7	WSW	SW	2		29.94	71	74	74	"	"	4	"	
8	S by W	S by W	2-6		29.98	72	69	69	bcpql	"	3	"	
9	SSE	S	5		29.99	72	70	71	bcl	"	8	"	
10	"	ESE	5		29.99	72	70	71	bc	"	8	"	
11	S by E	"	5		29.99	69	69	69	"	"	8	"	
Mid.	SE	"	5		29.99	69	69	69	"	"	8	"	

Longitude by Chronometer from Afternoon Observations ⊕	°	' "
Longitude by Chronometer Observations	°	' "
Variation of the Compass by Amplitude	°	' "
Variation of the Compass by	°	' "

observed at Sunset

at

under the command of Commander Winfield Scott Schley, U. S. Navy.
Friday March 22nd, 1878.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Cloudy first part, cloudy latter part. Cool. Light to gentle breeze from N. N. W. Barometer steady. Sea smooth. Clear hawse. Bright moonlight.

(Signed) James K. Cogswell
Lieut.

From 4 to 8 A.M. Cloudy. Cool. Gentle breeze from N. W. Cir. Cum. clouds. Received in Navigation Drift. 1000 gallons fresh water. Received in Pay Dept. 160 lbs fresh beef and 160 lbs. vegetables. At 7.35 Flagship made signal 3351. Answered.

(Signed) Samuel C. Lemly
Ensign.

From 8 to Merid. Cloudy and cool. Gentle to moderate breeze from N. N. W. and W. S. W. Barometer steady. Moderate sea. At 9.30 inspected at quarters. A salute of 21 guns was fired from a shore battery, with German colors hoisted. The Captains of a French and Spanish man of war made official visits on board.

(Signed) Clinton K. Curtis
Lieut.

From Merid. to 4 P.M. Cloudy. Passing shower latter part of watch. Cir. Cum. Nimb. clouds. At 12.40 Flagship made preparatory signal 6143, answered. At 1 Flagship hoisted annulling pennant. Answered.

(Signed) Samuel C. Lemly
Ensign.

From 4 to 8 P.M. Cloudy. Moderate rain squall last hour from S. by E. Barometer rising. Sea moderate.

(Signed) Clinton K. Curtis
Lieut.

From 8 to Midnight. Clear. Cool. Stiff breeze from S. and E. Bright moonlight. Cir. Cum. clouds.

(Signed) Samuel C. Lemly
Ensign.

Moon Phase, 3rd Qr, Dec S. 25 °.

(Signed) Asa Walker,
Lieut
Navigator.

Examined and found to be correct

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns,
Montevideo, Uruguay S.A.

Hour.	WINDS.				BAROMETER.		TEMPERATURE.				State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	Stat e of the Sea	Record of the sail the vessel is under at end of watch.
	Knots.	Tenths.	Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. atfd.	Air Dry Bulb.	Air Wet Bulb.					
A,M															
1			SE by S	ESE	5-6		30.05	70	69	68		bc	Cum Nimb	6	
2			SE	"	5-6		30.08	69	68	67		"	"	6	
3			"	SE	5-6		30.08	69	68	67		"	"	6	
4			"	"	5		30.09	68	67	66		"	"	6	
5			ESE	"	5		30.09	68	66	66		"	"	4	
6			"	"	5		30.12	68	66	66		"	Cir Cum Nimb	6	
7			SSE	"	4		30.15	66	66	65		"	"	4	
8			SE by S	"	3		30.18	66	66	66		"	"	6	
9			SE	ESE	3		30.15	67	67	66		"	"	6	
10			SSE	"	3		30.15	67	67	66		"	"	5	
11			SE	SE	3		30.14	67	68	67		"	"	4	
Noon			SSE	"	3		30.14	67	68	67		"	"	4	

Distance run by Log since preceding Noon	knots		fathoms.
Latitude by D. R. at Noon	0	1	11
Longitude by D. R. at Noon	0	1	11
Latitude by Observations at Noon ⊕	0	1	11
Longitude by Chronometer from Forenoon Observations ⊕	0	1	11
Current during the time	knots	fms. per hour, setting to the	
Variation of the Compass by Amplitude ⊕ observed at Sunrise	0	11	11
Variation of the Compass by Azimuth ⊕ observed at	0	11	11
Water expended during the preceding 24 hours			300 gallons
Water during the preceding 24 hours			11
Water remaining on hand fit for me at Noon			2500 11
Coal consumed during the preceding 24 hours		tons	250 lbs.
Coal remaining on hand at Noon	72	11	100 11

P,M										
1	SSE	SE by E	2	30.22	67	68	67	bc	Cir Cum	3
2	SE by S	ESE	3	30.22	67	68	67	"	"	4
3	"	SE	2	30.20	67	68	67	"	"	3
4	SE	ESE	2	30.17	67	68	67	"	"	2
5	ESE	SE	2	30.15	67	66	66	"	"	5
6	E by S	NE by N	2	30.15	67	64	63	"	"	4
7	E by N	"	2	30.14	67	64	64	"	"	4
8	ENE	"	2	30.13	67	64	64	"	"	5
9	"	NE	2	30.12	67	64	63	"	"	8
10	"	"	3	30.09	67	63	62	"	Cir Cum	8
11	"	"	4	30.09	67	62	61	"	"	7
Mid.	E by S	NE by E	4	30.09	64	62	61	"	"	7

Longitude by Chronometer from Afternoon Observations \oplus	0	4	11
Longitude by Chronometer Observations	0	4	11
Variation of the Compass by Amplitude	0	4	11
observed at Sunset			
Variation of the Compass by	0	4	11
at			

under the command of Commander Winfield Scott Schley, U. S. Navy.
Saturday March 23rd, 1878.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear and cool. Stiff breeze to fresh from E. S. E. to S. E.
Barometer rising. Sea rough. Cum. Nimb. clouds moving to N and W. Bright moonlight.

(Signed) Clinton K. Curtis
Lieut.

From 4 to 8 A.M. Cloudy. Cool. Pleasant. Stiff to gentle breeze from S. E. At 7.30 boat got
underway and stood up the river. Cross in hawse.

(Signed) Charles B. T. Moore
Ensign.

From 8 to Merid. Partially clear. Pleasant. Gentle S. E. breeze. Cir. Cum. Nimb. clouds. English
gunboat firing at target in offing. Received from fleet Marine officer the following articles of
Marine clothing, 13 woolen trousers, 20 flannel shirts, 20 drawers and 5 undress caps. Liberty
party returned with exceptions of James Lutrange (C Smith) John Kallenback (O.S.2.C.) Wm.
White (O.S.2.C.) Fred Porter (C. Hold) Michael Leary (Lds. E. F.) H. Frankenstein (2.C.F.) Clear
hawse.

(Signed) Samuel C. Lemly
Ensign.

From Merid. to 4 P.M. Cloudy. Pleasant. Light to gentle breeze from S. E. by E. to E. S. E. At 1,
sent liberty men ashore. The Brazilian Admiral and Commanding Officer of H. B. M. Ship
"Volage" called on the Commanding Officer. Clear hawse.

(Signed) Charles B. T. Moore
Ensign.

From 4 to 8 P.M. Clear. Pleasant. Light breeze from N. E. Cir. Cum. Nimb. Michael Leary (Lds
C.F.) Fred Porter (C. Hold) and John Kallenback (O.S.2.C.) returned on board over time.
American bark came in and anchored. Cross in hawse.

(Signed) Samuel C. Lemly
Ensign.

From 8 to Midnight. Clear. Cool. Pleasant. Light to moderate breeze from N. E. Bright
moonlight.

(Signed) Charles B. T. Moore
Ensign.

Moon Phase, 3rd Qr, Dec S. 27 °.

Examined and found to be correct

(Signed) Asa Walker,
Lieut
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Montevideo Uruguay S. A.

Hour.	Knots.	Tenths.	WINDS.			BAROMETER.		TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
			Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. at'd.	Air Dry Bulb.	Air Wet Bulb.				
A,M														
1			NE	North	3		30.08	60	61	61		bc	Cir Cum	9
2			N	"	3		30.06	60	60	60		"	"	9
3			"	"	3		30.04	60	60	60		"	"	9
4			"	"	3		30.03	60	60	60		"	"	9
5			N by W	N by W	4		30.02	59	58	57		"	"	9
6			NNW	NNW	5		30.02	59	56	56		"	Cir Str	9
7			"	"	3		30.00	59	58	58		"	"	7
8			"	"	3		30.00	59	60	60		"	"	6
9			"	"	5		30.02	59	65	65		"	Cir Cum	3
10			"	"	4		30.00	67	69	69		"	"	3
11			"	"	4		30.00	70	73	72		"	"	4
Noon			"	WNW	4		30.00	72	75	73		"	"	5

Record of the sail the vessel is under at end of watch.

Distance run by Log since preceding Noon	knots	fathoms.
Latitude by D. R. at Noon	0	"
Longitude by D. R. at Noon	0	"
Latitude by Observations at Noon ⊕	0	"
Longitude by Chronometer from Forenoon Observations ⊕	0	"
Current during the time	knots	fms. per hour, setting to the
Variation of the Compass by Amplitude ⊕ observed at Sunrise	0	"
Variation of the Compass by Azimuth ⊕ observed at	0	"
Water expended during the preceding 24 hours		300 gallons
Water during the preceding 24 hours		"
Water remaining on hand fit for me at Noon		2200 "
Coal consumed during the preceding 24 hours	tons	250 lbs.
Coal remaining on hand at Noon	71	2090 "

P,M														
1			NNW	WNW	4		29.96	71	76	73	bc	Cir Cum	9	
2			"	"	4		29.93	71	76	73	"	"	9	
3			"	WSW	3		29.91	73	76	74	"	"	9	
4			"	"	3		29.89	74	78	76	"	"	8	
5			NW by N	W by S	2		29.89	75	79	77	"	"	9	
6			ENE	"	1		29.89	75	76	75	"	"	9	
7			E by S	NNW	1		29.86	75	75	74	"	"	9	
8			N by W	"	1		29.86	75	73	72	bcl	"	9	
9			N	Calm	0		29.90	73	70	70	b	None	10	
10			NNW	N	0-1		29.90	71	70	69	"	"	10	
11			"	"	0-2		29.90	70	71	70	bc	Cir	9	
Mid.			"	"	2		29.90	69	69	68	"	"	9	

Longitude by Chronometer from Afternoon Observations ⊕	0	"
Longitude by Chronometer Observations	0	"
Variation of the Compass by Amplitude	0	"
Variation of the Compass by	0	"

under the command of Commander Winfield Scott Schley, U. S. Navy.
Sunday March 24th, 1878.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear. Cool. Gentle N[ortherly] breeze. Cir. Cum. clouds. Bright moonlight. Elbow and cross in hawse.

(Signed) Samuel C. Lemly
Ensign.

From 4 to 8 A.M. Clear, cool and pleasant. Moderate breeze from N. N. W. Cir. Str. clouds. Sea smooth. Cleared hawse.

(Signed) James K. Cogswell
Lieut.

From 8 to Merid. Cloudy and pleasant. Stiff to moderate breeze from N. N. W. and W. N. W. At 9.45 Commanding Officer inspected ship and crew at quarters, afterwards read prayers. By order of Commanding Officer, M. J. King (Lds) was released from confinement. Clear hawse. J. Lutrange (C. Smith) and Herman Frankenstein (2.C.F.) absent without leave.

(Signed) Charles B. T. Moore
Ensign.

From Merid. to 4 P.M. Clear and pleasant. Moderate to gentle breeze from W.N.W. first part, shifting to W.S.W. last part of watch. Sea smooth. Cir. Cum. clouds. Hawse clear. Flood tide. Ship riding to wind. Sent a visiting party to the "Hartford".

(Signed) James K. Cogswell
Lieut.

From 4 to 8 P.M. Clear. Pleasant. Light breeze to air from W.S.S. and N.N.W. Lightening to S.E. last hour. Clear hawse at end of watch.

(Signed) Charles B. T. Moore
Ensign.

From 8 to Midnight. Clear and cool. Calm first part, latter part light breeze from N. Bright moonlight. Moon rose at 10. Clear hawse.

(Signed) James K. Cogswell
Lieut.

Moon Phase, 3rd Qr, Dec S. 28 °.

(Signed) Asa Walker,
Lieut
Navigator.

Examined and found to be correct

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Montevideo, Uruguay S.A.

Hour.	Knots.	Tenths.	WINDS.			BAROMETER.		TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
			Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. at'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.				
A,M															
1			NNW	North	3		29.89	69	68	68		bc	Cir Cum	3	S
2			"	"	3		29.89	69	68	68		"	"	5	"
3			NW by N	"	3		29.87	69	68	67		"	"	7	"
4			NNW	N by E	2		29.87	69	68	67		"	"	2	"
5			WNW	WNW	1-2		29.87	68	68	68		"	"	4	"
6			"	"	1-2		29.89	68	68	68		"	"	3	"
7			W	"	1-2		29.89	68	68	68		"	"	3	"
8			NW by N	NW by N	1-2		29.90	70	70	69		"	Cir Cum Nimb	2	"
9			NW	NW	2		29.91	71	73	72		bcm	"	1	"
10			W	"	0-1		29.91	73	74	74		"	"	2	"
11			SW by S	SW by S	0-1		29.91	73	76	75		om	Cum Nimb	0	"
Noon			SE by E	"	1		29.91	74	76	75		"	"	0	"

Distance run by Log since preceding Noon	knots	fathoms.
Latitude by D. R. at Noon	°	' "
Longitude by D. R. at Noon	°	' "
Latitude by Observations at Noon ⊕	°	' "
Longitude by Chronometer from Forenoon Observations ⊕	°	' "
Current during the time	knots	fms. per hour, setting to the
Variation of the Compass by Amplitude ⊕ observed at Sunrise	°	" "
Variation of the Compass by Azimuth ⊕ observed at	°	" "
Water expended during the preceding 24 hours		300 gallons
Water Received during the preceding 24 hours		750 "
Water remaining on hand fit for me at Noon		2300 "
Coal consumed during the preceding 24 hours	tons	250 lbs.
Coal remaining on hand at Noon	71	" 1840 "

P,M															
1			SE by S	SW	2		29.90	73	75	75		om	Cum Nimb	0	S
2			SE	"	2		29.88	73	75	75		"	"	0	"
3			S	SSE	2		29.87	73	75	75		"	"	0	"
4			"	"	2		29.86	73	75	74		"	"	0	"
5			"	E	2		29.85	78	74	74		"	"	0	"
6			"	"	2		29.85	72	74	74		"	"	0	"
7			SE by E	"	2		29.85	72	73	72		"	"	0	"
8			SSE	"	2		29.83	72	73	72		bcml	"	4	"
9			ENE	NE	2		29.76	71	74	73		bcmtl	"	2	"
10			"	"	2		29.76	71	73	73		bcml	"	1	"
11			"	"	2		29.78	71	73	73		"	"	1	"
Mid.			"	"	2		29.78	71	72	72		olr	"	0	"

Longitude by Chronometer from Afternoon Observations ⊕	°	' "
Longitude by Chronometer Observations	°	' "
Variation of the Compass by Amplitude observed at Sunset	°	' "
Variation of the Compass by at	°	' "

under the command of Commander Winfield Scott Schley, U. S. Navy.
Monday March 25th, 1878.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Cloudy. Cool. Pleasant. Gentle to light breeze from N. and N. by E. Bright moonlight. Clear hawse.

(Signed) Charles B. T. Moore
Ensign.

From 4 to 8 A.M. Cloudy and pleasant. Light breeze from W.N.W. shifting to N.W. by N. Barometer rising slowly. Sea smooth. At 7.30 Flagship made signal 3356, answered. At 7.25 caulkers came on board, commenced caulking berth deck. At 8 dressed ship, Brazilian colors at main, American at Fore and Mizzen, in company with Brazilian Flagship. At 7 water lighter came alongside, received on board 750 gallons fresh water.

(Signed) Clinton K. Curtis
Lieut.

From 8 to Merid. Cloudy and pleasant, overcast last two hours. Light airs from N.W. first two hours, from S.W. by S. last two hours of watch. Cum. Nimb. clouds. Barometer steady. Working from shore by contract, on board engaged in caulking berth deck. Commanding Officer of H.B.M. Ship "Foam" paid an official visit to the Commanding Officer. At noon a salute of 21 guns was fired by the men of war in port. Riding to flood.

(Signed) James K. Cogswell
Lieut.

From Merid. to 4 P.M. Cloudy and pleasant. Light breeze from S. W. shifting to S.S.E. Barometer falling. Sea smooth. Engaged in caulking berth deck. Received on board 300 lbs of junk from Flagship.

(Signed) Clinton K. Curtis
Lieut.

From 4 to 8 P.M. Overcast first three hours, clearing up last hour. Cum. Nimb. clouds. Lightening in horizon to the N.W. latter part of watch. Riding to the flood. Clear hawse.

(Signed) James K. Cogswell
Lieut.

From 8 to Midnight. Cloudy and threatening. Wind light from N.E. Barometer rising slowly. Sea smooth. Raining last hour.

(Signed) Clinton K. Curtis
Lieut.

Moon Phase, 3rd Qr, Dec S. 26 °.

Examined and found to be correct

(Signed) Asa Walker,
Lieut
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Montevideo, Uruguay S.A.

Hour.	Knots.	Tenths	WINDS.				BAROMETER.		TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
			Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. at'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.				
A,M															
1			SSE	ENE	2		29.78	72	74	74		bclt	Cum Nimb	2	S
2			SE	"	1-2		29.73	72	74	74		ol	"	0	"
3			"	Calm	0		29.73	72	74	73		"	"	0	"
4			E	"	0		29.73	72	74	73		"	"	0	"
5			E by S	SE	1-3		29.70	71	72	72		orglt	"	0	"
6			"	S	1		29.70	71	72	72		bcrgrt	"	3	"
7			SE by S	"	1		29.70	71	71	70		bc	"	3	"
8			ENE	SE	1		29.70	71	71	70		"	"	3	"
9			E by N	S by W	2		29.68	70	72	71		or	"	0	"
10			E	SSW	2		29.68	60	72	72		o	"	0	"
11			W	"	2		29.72	71	70	70		bc	"	2	"
Noon			SW by S	S	2		29.72	70	71	72		op	"	0	"

Record of the sail the vessel is under at end of watch.

Distance run by Log since preceding Noon	knots	fathoms.
Latitude by D. R. at Noon	°	' "
Longitude by D. R. at Noon	°	' "
Latitude by Observations at Noon ⊕	°	' "
Longitude by Chronometer from Forenoon Observations ⊕	°	' "
Current during the time	knots	fms. per hour, setting to the
Variation of the Compass by Amplitude ⊕ observed at Sunrise	°	" "
Variation of the Compass by Azimuth ⊕ observed at	°	" "
Water expended during the preceding 24 hours		300 gallons
Water during the preceding 24 hours		"
Water remaining on hand fit for me at Noon		2000 "
Coal consumed during the preceding 24 hours	tons	250 lbs.
Coal remaining on hand at Noon	71	" 1590 "

P,M														
1			S	SSW	4		29.71	69	69	69	bcp	Cum Nimb	1	M
2			"	SW	3		29.70	70	70	70	bc	"	2	"
3			"	WSW	2		29.70	70	70	70	"	"	3	"
4			"	W by S	2		29.70	70	70	70	"	"	3	"
5			"	"	2		29.72	70	71	70	"	"	3	"
6			S by W	W	2		29.72	70	70	70	"	"	3	"
7			SSW	"	2		29.73	70	70	70	"	"	2	"
8			SW by W	SW by W	3		29.75	70	70	70	or	"	0	"
9			SSW	SW by S	4-6		29.79	70	69	69	bcpq	"	4	P
10			"	"	4-6		29.79	70	69	69	"	"	4	"
11			"	"	5-7		29.82	69	68	68	bc	"	7	"
Mid.			S by W	"	5-8		29.83	69	68	68	"	"	9	"

Longitude by Chronometer from Afternoon Observations ⊕	°	' "
Longitude by Chronometer Observations	°	' "
Variation of the Compass by Amplitude	°	' "
Variation of the Compass by	°	' "

observed at Sunset
at

under the command of Commander Winfield Scott Schley, U. S. Navy.
Tuesday March 26th, 1878.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Light airs from E.N.E. first part, calm latter part of watch. Rain first hour, thunder and lightening rest of watch. Overcast. Barometer steady first three hours, falling rapidly last hour. Cross in hawse.

(Signed) James K. Cogswell
Lieut.

From 4 to 8 A.M. Cloudy. Moderate squall from S. with much rain at 5.10. Thunder and lightening during first part. Light breeze from S. and E. Cum. Nimb. clouds. Italian steamer passed up river. At 6.10 Flagship made general signal 2983. Answered. At 7.30 Flagship made general signal 3351. Answered. At 8, French steamer passed up the river.

(Signed) Samuel C. Lemly
Ensign.

From 8 to Merid. Overcast and cloudy, frequent heavy showers during watch. Barometer rising. Sea smooth. Light breeze from S. by W. W.S.W. and S.W. By order of Commanding Officer the following punishments were administered. W.M. McCann (O.S.) W.D. Jenkins (O.S.) D.W. Hellen (O.S.2.C.) for shirking below while work was going on, 6 hours extra duty. Thos. C. Pentz (O.S.2.C.) for shirking and insolence to Officer of Deck and not obeying orders of boatswains mate, confinement in single irons. Nicholas Lynch (O.S.2.C) for insubordination, confinement in single irons. The following men were absent without leave. James Lutrane (B.Maker) W.C. Blake (Mach) Alfred Stahler (P.M.) Asa Mitchell (Lds) James McCarthy (I.C.F.) Jess Donovan (2.C.F.) James Strover (W.P.C.) Dennis Kuliher (S.Tailor) Daniel Shelly (Lds) Richard Jones (Stg Std) Herman Frankenstein (2.C.F.) Received on board in Equipment Dept. 1/2 Cord of wood. At 11.30 Board of Survey came on board to survey feed pipes.

(Signed) Clinton K. Curtis
Lieut.

From Merid. to 4 P.M. Cloudy. Moderate breeze from S.S.W. falling light and working around to W. Cum. Nimb. clouds. Cleared hawse of an elbow. Received on board Xaver French (P.M.) with description list, bag and hammock. A P.S.N.C. Steamer came in and anchored. Commanding Officer called on Commander of H.B.M. ship "Foam".

(Signed) Samuel C. Lemly
Ensign.

From 4 to 8 P.M. Overcast and cloudy. Raining last hour. Light breeze from W. shifting to S.W. by W. and increasing last hour. Barometer rising slowly. Moderate sea setting to E. Shipped August Sius for three years general service. Open hawse.

(Signed) Clinton K. Curtis
Lieut.

From 8 to Midnight. Cloudy first part and clear latter part of watch. Blowing a moderate gale with heavy gusts from S.W. Cum. Nimb. clouds Sea rough. Clear hawse.

(Signed) Samuel C. Lemly
Ensign.

Moon Phase, 4th Qr, Dec S. 24 °.

(Signed) Asa Walker,
Lieut
Navigator.

Examined and found to be correct

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Montevideo Uruguay S.A.

Hour.	Knots.	Tenths	WINDS.			BAROMETER.			TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
			Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. at'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.				
A,M															
1			SSW	SSW	6-7		29.83	65	66	64		bc	Cum Nimb	7	P
2			"	SW by S	6-7		29.83	65	66	64		"	"	8	"
3			SW by S	SSW	6-7		29.83	65	66	64		"	"	8	"
4			SSW	"	6-7		29.83	65	65	64		"	"	6	"
5			"	"	6-7		29.83	67	64	63		"	"	4	"
6			S by W	"	5-7		29.85	64	64	63		"	"	5	"
7			SSW	"	5-7		29.87	64	63	62		"	"	6	"
8			SW by S	"	6-7		29.90	63	64	63		"	"	4	"
9			SW	"	7		29.93	64	64	63		"	"	5	"
10			SW by S	"	5		29.95	64	64	64		"	"	6	"
11			SSW	"	4-5		29.97	64	64	63		"	"	6	"
Noon			"	"	4-5		29.99	64	64	62		"	"	6	"

Record of the sail the vessel is under at end of watch.

Distance run by Log since preceding Noon	knots	fathoms.
Latitude by D. R. at Noon	0	"
Longitude by D. R. at Noon	0	"
Latitude by Observations at Noon ⊕	0	"
Longitude by Chronometer from Forenoon Observations ⊕	0	"
Current during the time	knots	fms. per hour, setting to the
Variation of the Compass by Amplitude ⊕ observed at Sunrise	0	"
Variation of the Compass by Azimuth ⊕ observed at	0	"
Water expended during the preceding 24 hours		250 gallons
Water during the preceding 24 hours		"
Water remaining on hand fit for me at Noon		2200 "
Coal consumed during the preceding 24 hours	tons	250 lbs.
Coal remaining on hand at Noon	71	" 1340 "

P,M															
1			SSW	SSW	4-5		30.00	65	64	63		bc	Cum Nimb	4	P
2			SW	"	4-5		30.00	65	65	64		"	"	3	"
3			S by W	"	4		30.03	65	65	64		"	"	4	"
4			SSW	"	4		30.0	65	65	64		"	"	4	"
5			S by W	S by W	3		30.0	66	66	64		"	"	8	"
6			SSW	SSW	2		30.0	65	64	64		"	"	8	M
7			"	"	2		30.0	66	64	64		"	"	8	"
8			"	"	3		30.0	66	65	64		"	"	9	"
9			"	"	4-6		30.0	66	64	64		"	"	9	"
10			"	"	5		30.0	66	64	64		"	"	8	"
11			S by E	S	5		30.0	66	63	63		"	"	9	"
Mid.			SSE	SSE	4		30.0	66	63	63		"	"	7	"

Longitude by Chronometer from Afternoon Observations ⊕	0	"
Longitude by Chronometer Observations	0	"
Variation of the Compass by Amplitude	0	"
Variation of the Compass by	0	"

observed at Sunset
at

under the command of Commander Winfield Scott Schley, U. S. Navy.
Wednesday March 27th, 1878.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear and cool. Fresh breeze from S.S.W. and S.W. by S. increasing at times to very fresh breeze. Barometer steady. Sea rough. Open hawse.

(Signed) Clinton K. Curtis
Lieut.

From 4 to 8 A.M. Cloudy. Cool. Stiff to very fresh breeze from S.S.W, blowing in gusts. Sea rough. Barometer rising. Clear hawse. At 7.30 Flagship signaled Navy Code, 3351, answered.

(Signed) Charles B. T. Moore
Ensign.

From 8 to Merid. Clear and pleasant, with stiff to moderate breeze from S.S.W. At 9.30 mustered at quarters. At 11.20 "Hartford" made general signal 5493, answered. Sea rough but moderating. Clear hawse. An English Steamer L. and H. came in. the following named men are absent from the ship without leave James Lutrange (C. Smith) W.C. Blake (Mach) Alfred Stahler (P.M.) Asa Mitchell (Lds) James McCarthy (1.C.F.) Jess Donovan (2.C.F.) Dennis Kuliher (S.Tailor) H. Frankenstein (2.C.F.)

(Signed) Samuel C. Lemly
Ensign.

From Merid. to 4 P.M. Cloudy. Cool. Fresh to moderate breeze from S.S.W. A large steamer came in and anchored. Clear hawse. Barometer rising.

(Signed) Charles B. T. Moore
Ensign.

From 4 to 8 P.M. Clear. Pleasant. Moderate S.S.W. breeze falling light towards end of watch. Cir. Cum. clouds. Rough sea first part of watch going down towards end. Clear hawse.

(Signed) Samuel C. Lemly
Ensign.

From 8 to Midnight. Clear. Pleasant. Cool. Moderate to fresh breeze from S.S.W. shifting to S.S.E. Clear hawse. Barometer steady.

(Signed) Charles B. T. Moore
Ensign.

Moon Phase, 4th Qr, Dec S. 20°.

(Signed) Asa Walker,
Lieut
Navigator.

Examined and found to be correct

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Montevideo, Uruguay S.A.

Hour.	Knots.	Tenths	WINDS.			BAROMETER.		TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	
			Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. at'd.	Air Dry Bulb.	Air Wet Bulb.					Water at surface.
A,M															
1			SSE	S by E	2		30.06	65	64	64		bc	Cir Cum Nimb	8	S
2			"	"	2		30.06	65	64	64		"	"	7	"
3			"	"	2		30.05	65	64	64		"	"	8	"
4			"	SE by S	2		30.05	65	64	64		"	"	8	"
5			"	"	2		30.05	65	64	64		"	"	8	"
6			"	NW	2		30.05	64	63	63		"	"	8	"
7			SE	"	2		30.05	64	60	63		"	"	4	"
8			"	N	1		30.07	61	59	69		"	"	8	"
9			ESE	"	1		30.08	61	63	63		"	"	9	"
10			"	"	1		30.14	64	66	66		"	"	7	"
11			"	ENE	1		30.15	64	66	66		"	"	6	"
Noon			S by E	S	2		30.15	65	66	66		"	"	6	"

Record of the sail the vessel is under at end of watch.

Distance run by Log since preceding Noon knots fathoms.

Latitude by D. R. at Noon ° ' "

Longitude by D. R. at Noon ° ' "

Latitude by Observations at Noon ⊕ ° ' "

Longitude by Chronometer from Forenoon Observations ⊕ ° ' "

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊕ observed at Sunrise ° " "

Variation of the Compass by Azimuth ⊕ observed at ° " "

Water expended during the preceding 24 hours 300 gallons

Water during the preceding 24 hours "

Water remaining on hand fit for me at Noon 1900 "

Coal consumed during the preceding 24 hours tons 250 lbs.

Coal remaining on hand at Noon 71 " 1090 "

P,M														
1			South	SE	2		30.14	66	66	65		bc	Cir Cum	9 S
2			SSE	"	2		30.12	66	66	65		"	"	8 "
3			"	"	2		30.12	66	66	65		"	"	8 "
4			SE by S	"	3		30.12	67	66	65		"	"	9 "
5			SE	"	4		30.10	66	65	65		"	"	8 "
6			"	"	4		30.10	66	65	64		"	"	8 "
7			"	"	4		30.13	66	64	64		"	"	9 "
8			SE by E	"	5		30.13	65	64	63		"	"	7 "
9			ESE	ESE	4		30.12	65	63	63		bcl	Cum Nimb	9 "
10			"	ENE	4		30.12	65	63	63		"	"	9 "
11			SE	"	3		30.12	66	63	63		bc	"	8 "
Mid.			ESE	"	3		30.13	66	63	63		o	"	0 "

Longitude by Chronometer from Afternoon Observations ⊕ ° ' "

Longitude by Chronometer Observations ° ' "

Variation of the Compass by Amplitude observed at Sunset ° ' "

Variation of the Compass by at ° ' "

under the command of Commander Winfield Scott Schley, U. S. Navy.
Thursday March 28th, 1878.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear. Cool. Light breeze from S.E. by S. Cir. Cum. Nimb. clouds.
At 1.10 moon rose. Clear hawse.

(Signed) Samuel C. Lemly
Ensign.

From 4 to 8 A.M. Cloudy first part, clear and pleasant latter part of watch. Light airs to gentle breeze from N.W. to N. At 7.30 "Hartford" signaled 3351, answered. At 7.50 "Hartford" signaled 5455. Answered. At 8 loosed sail. Gang of caulkers, 25 men, from shore, at work on berth deck. Clear hawse.

(Signed) James K. Cogswell
Lieut.

From 8 to Merid. Clear. Pleasant. Light airs to light breeze from N. shifting to S. At 9.30 mustered at quarters. At 10 sent liberty party ashore. At 10.15 Flagship made general signal 3094. Clear hawse. Caulkers from city at work on spar deck.

(Signed) Charles B. T. Moore
Ensign.

From Merid. to 4 P.M. Clear and pleasant. Light breeze from S.E. Cir. Cum. clouds. Barometer steady last three hours of watch. At 1 "Hartford" made signal 4826, answered. At 1.15 furled sail. At 3, H.B.M. gunboat "Griffon" got underway and stood out to sea. Discharged at his own request Scott E. Winfield, by order of Commanding Officer. Caulkers from shore at work on spar deck. Hawse clear.

(Signed) James K. Cogswell
Lieut.

From 4 to 8 P.M. Clear. Cool. Pleasant. Moderate to stiff breeze from S.E. At sunset sent down topgallant yards. Clear hawse.

(Signed) Charles B. T. Moore
Ensign.

From 8 to Midnight. Clear first three hours, overcast last hour. Cool. Moderate breeze first part from S.E. Light breeze latter part from E.N.E. Lightening in horizon to the N.W. Clear hawse.

(Signed) James K. Cogswell
Lieut.

Moon Phase, 4th Qr, Dec S. 16°.

Examined and found to be correct

(Signed) Asa Walker,
Lieut
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Montevideo, Uruguay S.A.

Hour.	Knots.	Tenths	WINDS.			BAROMETER.		TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	
			Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. at'd.	Air Dry Bulb.	Air Wet Bulb.					Water at surface.
A,M															
1			ENE	ENE	3		30.13	66	63	63		bc	Cum Nimb	1	S
2			"	"	3		30.13	66	63	63		"	"	4	"
3			E by N	"	4		30.14	66	63	62		o	"	0	"
4			"	"	4		30.14	66	64	63		bc	"	5	"
5			ENE	"	3		30.13	65	64	65		"	"	2	"
6			"	"	2		30.15	65	65	65		"	"	1	"
7			E	"	2		30.15	65	66	65		"	"	1	"
8			"	"	2		30.15	66	66	65		"	"	1	"
9			E by S	"	3		30.14	65	66	66		o	"	0	"
10			E by N	E by N	3		30.14	66	67	66		or	"	0	"
11			"	"	3-5		30.12	66	69	67		"	"	0	"
Noon			"	"	3-5		30.13	68	70	68		"	"	0	"

Record of the sail the vessel is under at end of watch.

Distance run by Log since preceding Noon	knots	fathoms.
Latitude by D. R. at Noon	o	' "
Longitude by D. R. at Noon	o	' "
Latitude by Observations at Noon ⊕	o	' "
Longitude by Chronometer from Forenoon Observations ⊕	o	' "
Current during the time	knots	fms. per hour, setting to the
Variation of the Compass by Amplitude ⊕ observed at Sunrise	o	" "
Variation of the Compass by Azimuth ⊕ observed at	o	" "
Water expended during the preceding 24 hours		300 gallons
Water during the preceding 24 hours		1200 "
Water remaining on hand fit for me at Noon		2800 "
Coal consumed during the preceding 24 hours	tons	250 lbs.
Coal remaining on hand at Noon	71	" 840 "

P,M															
1			E by N	E by S	4-5		30.10	69	71	69		bc	Cum Nimb	2	M
2			"	"	4-5		30.08	70	72	70		"	"	4	"
3			ESE	"	4-5		30.06	70	72	70		"	"	3	"
4			"	"	4-5		30.06	70	70	70		"	"	1	"
5			E by S	"	4-6		30.07	70	70	69		og	"	0	"
6			"	"	4-6		30.07	70	70	69		"	"	0	"
7			"	"	4-6		30.07	70	70	69		"	"	0	"
8			ESE	"	4-6		30.07	70	69	69		"	"	0	"
9			E by N	E by N	4-5		30.07	70	69	69		o	"	0	"
10			"	"	3-4		30.07	70	69	69		"	"	0	"
11			NE by N	ENE	2-3		30.07	70	69	69		"	"	0	"
Mid.			NNW	N by E	1-2		30.07	70	69	69		"	"	0	"

Longitude by Chronometer from Afternoon Observations ⊕	o	' "
Longitude by Chronometer Observations	o	' "
Variation of the Compass by Amplitude	o	' "
Variation of the Compass by	o	' "

under the command of Commander Winfield Scott Schley, U. S. Navy.
Friday March 29th, 1878.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Cloudy. Cool. Gentle to moderate breeze from E.N.E.

(Signed) Charles B. T. Moore
Ensign.

From 4 to 8 A.M. Weather cloudy. Light breeze from E.N.E. Barometer rising slowly. Sea smooth. At 6.45 caulkers came on board. Engaged in caulking quarter deck. Received 1200 gallons fresh water. At 7.30 Flagship made signal 3351, answered. At 7.50 Flagship made preparatory 6143, answered, immediately after made 4363, Flagship answered 904. At 7.15 H.B.M. gunboat "Fram" left the harbor.

(Signed) Clinton K. Curtis
Lieut.

From 8 to Merid. Overcast and cool. Moderate breeze from E. by N. blowing fresh in puffs. By order of Commanding Officer, Nicholas Lynch (O.S.2.C.) and Thomas C. Pentz (O.S.2.C.) were released from confinement. Cross in hawse.

(Signed) James K. Cogswell
Lieut.

From Merid. to 4 P.M. Cloudy. Moderate breeze increasing to fresh breeze from E. by S. Barometer falling. Moderate setting to S.W. At 3.30 brought starboard chain to and hove up anchor. H.B.M.S. "Foam" came in.

(Signed) Clinton K. Curtis
Lieut.

From 4 to 8 P.M. Overcast. Cool. Moderate breeze from E. by S. blowing fresh in squalls. Barometer steady. Cum. Nimb. clouds. Let go starboard anchor veered to 30 fathoms chain and hove in to 30 fathoms port chain, laying the anchors out in a line E. by S. and W. by N. Asa Mitchell (Lds) and Alfred Stahler (P.M.) returned on board, having overstaid [overstayed] liberty four days and five hours.

(Signed) James K. Cogswell
Lieut.

From 8 to Midnight. Weather cloudy. Strong breeze from E. by N. at beginning of watch, shifting to N. by E and decreasing to light airs at end of watch. Barometer steady. Sea smooth.

(Signed) Clinton K. Curtis
Lieut.

Moon Phase, 4th Qr, Dec S. 11 °.

Examined and found to be correct

(Signed) Asa Walker,
Lieut
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Montevideo, Uruguay S.A.

Hour.	Knots.	Tenths	WINDS.			BAROMETER.		TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
			Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. at'd.	Air Dry Bulb.	Air Wet Bulb.				
A,M														
1			N by E	NE by E	2		30.09	70	69	69	or	Nimb	0	S
2			N	E	1-2		30.08	70	69	69	oz	"	0	"
3			NE	ENE	2		29.	70	68	68	"	"	0	"
4			E	"	1-2		29.	70	68	68	"	"	0	"
5			ESE	SE	1		29.	70	69	69	od	"	0	"
6			"	ESE	1		29.	69	69	69	"	"	0	"
7			"	SE	1		29.	69	69	69	"	"	0	"
8			SE by E	"	1		29.	69	69	70	"	"	0	"
9			ESE	N	2		29.	69	70	70	"	"	0	"
10			E	"	2		29.	69	71	71	"	"	0	"
11			ENE	NE	2		29.	69	72	71	"	"	0	"
Noon			NE 1/2 N	NNE	2		29.	71	73	72	"	"	0	"

Record of the sail the vessel is under at end of watch.

Distance run by Log since preceding Noon	knots	fathoms.
Latitude by D. R. at Noon	o	' "
Longitude by D. R. at Noon	o	' "
Latitude by Observations at Noon ⊕	o	' "
Longitude by Chronometer from Forenoon Observations ⊕	o	' "
Current during the time	knots	fms. per hour, setting to the
Variation of the Compass by Amplitude ⊕ observed at Sunrise	o	" "
Variation of the Compass by Azimuth ⊕ observed at	o	" "
Water expended during the preceding 24 hours		300 gallons
Water during the preceding 24 hours		"
Water remaining on hand fit for me at Noon		2500 "
Coal consumed during the preceding 24 hours	tons	250 lbs.
Coal remaining on hand at Noon	71	" 590 "

P,M														
1			NE	NE	2		30.08	71	73	73	or	Nimb	0	S
2			"	"	1		30.07	71	73	73	"	"	0	"
3			NNE	NNE	1		30.04	71	73	74	"	"	0	"
4			ENE	ENE	1-2		30.03	71	73	73	o	"	0	"
5			ESE	E	1-2		30.04	72	73	72	"	"	0	"
6			"	"	1-2		30.05	72	73	72	or	"	0	"
7			"	"	1-2		30.05	72	73	72	o	"	0	"
8			SE by E	"	2		30.05	72	73	72	bc	"	0	"
9			E by S	"	2		30.06	72	72	73	"	Cum Nimb	8	"
10			"	"	2		30.06	71	72	72	"	"	0	"
11			E	"	2		30.04	71	72	72	"	"	0	"
Mid.			E by N	"	2		30.04	71	72	72	"	"	0	"

Longitude by Chronometer from Afternoon Observations ⊕	o	' "
Longitude by Chronometer Observations	o	' "
Variation of the Compass by Amplitude	o	' "
Variation of the Compass by	o	' "

observed at Sunset

at

under the command of Commander Winfield Scott Schley, U. S. Navy.
Saturday March 30th, 1878.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Overcast. Cool. Drizzling rain. Light breeze from E. to N.E. by E.
Barometer falling slowly. Nimb. clouds. Hawse clear.

(Signed) James K. Cogswell
Lieut.

From 4 to 8 A.M. Overcast. Drizzling rain. Light airs from S.E. Nimb. clouds. At 7.30 Flagship
made general signal 3351, answered. Clear hawse. A gang of 24 caulkers at work on board.

(Signed) Samuel C. Lemly
Ensign.

From 8 to Merid. Cloudy, with drizzling rain first part, raining last hour. Light breeze from E.N.E.
shifting to N.N.E. Barometer steady. Sea smooth Engaged in caulking spar deck. Irvin Winbush
(W.O.St.) a prisoner awaiting trial by general court martial, was brought to the mast and a copy
of charges and specifications against him delivered to him. By order of Commander, John E.
Kirk (O.S.) was confined in single irons for gross insolence to Officer of division.

(Signed) Clinton K. Curtis
Lieut.

From Merid. to 4 P.M. Overcast. Rainy. Light N.E. airs. Nimb. clouds. A gang of 24 caulkers at
work on board. Cross in hawse. Received on board John Riley (Sea) he having enlisted 18
months general service.

(Signed) Samuel C. Lemly
Ensign.

From 4 to 8 P.M. Cloudy. Drizzling rain first three hours. Partially clear last hour. Barometer
steady. Sea smooth. Light breeze from E. Clear hawse.

(Signed) Clinton K. Curtis
Lieut.

From 8 to Midnight. Clear. Cool. Pleasant. Light E.N.E. breeze. Cum. Nimb. clouds. Clear
hawse.

(Signed) Samuel C. Lemly
Ensign.

Moon Phase, 4th Qr, Dec S. 6°.

(Signed) Asa Walker,
Lieut
Navigator.

Examined and found to be correct

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns,
Montevideo, Uruguay S.A.

Hour.	Knots.	Tenths	WINDS.			BAROMETER.		TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
			Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. at'd.	Air Dry Bulb.	Air Wet Bulb.				
A,M														
1			NE	NE	2	30.07	71	72	71		bc	Cum Nimb	1	S
2			N by E	"	1-2	30.07	71	72	71		"	"	1	"
3			NNW	"	2	30.07	71	71	71		"	"	1	"
4			N	"	2	30.06	70	70	70		o	"	0	"
5			NE	N	2	30.06	70	70	70		"	"	0	"
6			"	"	2	30.06	70	70	70		"	"	0	"
7			ENE	"	2	30.08	69	70	70		"	"	0	"
8			E	"	2	30.08	69	70	70		"	"	0	"
9			ESE	N by E	2	30.07	69	71	70		"	"	0	"
10			SE	N	2	30.09	69	72	71		"	"	0	"
11			SE by S	"	2	30.10	70	73	72		"	"	0	"
Noon			SSE	"	2	30.10	70	73	72		"	"	0	"

Record of the sail the vessel is
under at end of watch.

Distance run by Log since preceding Noon	knots		fathoms.
Latitude by D. R. at Noon	0	1	"
Longitude by D. R. at Noon	0	1	"
Latitude by Observations at Noon ⊕	0	1	"
Longitude by Chronometer from Forenoon Observations ⊕	0	1	"
Current during the time	knots	fms. per hour, setting to the	
Variation of the Compass by Amplitude ⊕ observed at Sunrise	0	"	"
Variation of the Compass by Azimuth ⊕ observed at	0	"	"
Water expended during the preceding 24 hours			300 gallons
Water during the preceding 24 hours			"
Water remaining on hand fit for me at Noon			2200 "
Coal consumed during the preceding 24 hours		tons	250 lbs.
Coal remaining on hand at Noon	71	"	340 "

P,M												
1	E	E	2	30.09	70	72	72	o	Cum	0	S	
2	"	"	3	30.08	70	72	72	"	Nimb	0		
3	E by S	"	3	30.07	70	72	72	"	"	0	"	
4	"	E by S	3	30.07	70	72	72	"	"	0	"	
5	SE by E	ESE	3	30.07	70	71	71	"	"	0	"	
6	ESE	"	4	30.06	72	71	71	"	"	0	"	
7	E by S	"	4-5	30.06	72	71	71	"	"	0	"	
8	"	"	4-5	30.07	72	71	71	"	"	0	"	
9	"	E	4-6	30.07	70	70	69	"	"	0	"	
10	ESE	"	4-7	30.07	71	70	69	"	"	0	"	
11	E by S	"	4-7	30.07	71	70	69	"	"	0	"	
Mid.	ESE	"	4-6	30.07	71	70	69	"	"	0	"	

Longitude by Chronometer from Afternoon Observations ⊕	0	1	2
Longitude by Chronometer Observations	0	1	2
Variation of the Compass by Amplitude	0	1	2
observed at Sunset			
Variation of the Compass by	0	1	2
at			

under the command of Commander Winfield Scott Schley, U. S. Navy.
Sunday March 31st, 1878.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Cloudy and threatening. Light breeze from N.E. Barometer steady.
Sea smooth. Clear hawse.

(Signed) Clinton K. Curtis
Lieut.

From 4 to 8 A.M. Overcast. Cool. Light breeze from N. At 7.30 Flagship made general signal
3350. Answered. Cross in hawse.

(Signed) Charles B. T. Moore
Ensign.

From 8 to Merid. Light N[ortherly] breeze. At 9.45 Commanding Officer inspected ship and crew
at quarters, and immediately after read prayers. At 10 Flagship made signal (Telegraphic) 6853,
6756, 0073, 5468, 2511, 8801. We then made signal 3873. She answered and hauled his
telegraphic signal 6853, 6756, 0073, 5468, 2511, 8810. Hauled down telegraphic flag. Clear
hawse. The following men absent without leave, Philip Kincade (S.Cook) George F. Caswell
(S.M.M.)

(Signed) Samuel C. Lemly
Ensign.

From Merid. to 4 P.M. Overcast, with light moderate breeze from E. and E. by S. Barometer
falling slowly. Clear hawse.

(Signed) Charles B. T. Moore
Ensign.

From 4 to 8 P.M. Overcast. Cool. Pleasant. Moderate E.S.E. breeze, blowing in puffs. At 6
Flagship made general signal 2985, answered. Clear hawse.

(Signed) Samuel C. Lemly
Ensign.

From 8 to Midnight. Overcast. Cool. Moderate to very fresh breeze from E. blowing in puffs.
Barometer steady. Clear hawse.

(Signed) Charles B. T. Moore
Ensign.

Moon Phase, 4th Qr, Dec 1°.

Examined and found to be correct

(Signed) Asa Walker,
Lieut
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns,

Hour.	Knots.	Tenths	WINDS.			BAROMETER.		TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
			Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. at'd.	Air Dry Bulb.	Air Wet Bulb.					
A,M															
1															
2															
3															
4															
5															
6															
7															
8															
9															
10															
11															
Noon															
Distance run by Log since preceding Noon										knots	fathoms.				
Latitude by D. R. at Noon										°	'	"			
Longitude by D. R. at Noon										°	'	"			
Latitude by Observations at Noon ⊕										°	'	"			
Longitude by Chronometer from Forenoon Observations ⊕										°	'	"			
Current during the time										knots	fms. per hour, setting to the				
Variation of the Compass by Amplitude ⊕ observed at Sunrise										°	"	"			
Variation of the Compass by Azimuth ⊕ observed at										°	"	"			
Water expended during the preceding 24 hours										gallons					
Water during the preceding 24 hours										"					
Water remaining on hand fit for me at Noon										"					
Coal consumed during the preceding 24 hours										tons	lbs.				
Coal remaining on hand at Noon										"	"				
P,M															
1															
2															
3															
4															
5															
6															
7															
8															
9															
10															
11															
Mid.															
Longitude by Chronometer from Afternoon Observations ⊕										°	'	"			
Longitude by Chronometer Observations										°	'	"			
Variation of the Compass by Amplitude										observed at Sunset					
Variation of the Compass by										°	'	"			
										at					

under the command of

, U. S. Navy.

, 18 .

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

U.S.S. Essex 3rd Rate
Montevideo April 1st 1878

I certify this to be a correct copy of the log of this ship
From Oct 1st 1877 to March 31st 1878.

Asa Walker
Lieut. Navigator

Approved
W. S. Schley
Comd. Comdg.

Examined and found to be correct

Navigator.